Internet of Things



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Internet of Things

Do you monitor the security cameras installed at your house using your mobile phone? To locate your car? To switch on your home air conditioner remotely on the ride back from work? Do you wear a fitness tracker or a smartwatch as you go about during your day? Do you rely on Alexa or Siri to manage smart devices in your office or home?



If so, you are leveraging the power of the Internet of Things. The Internet of Things (often referred to as IoT) is a concept that refers to the growing network of everyday objects and devices that are connected to the Internet, allowing them to send and receive data. In essence, IoT transforms ordinary objects into smart devices that enhance our daily lives by improving efficiency, saving energy, and providing useful insights.

> *If you think that the Internet has changed your life, think again. The Internet of Things is about to change it all over again!*
> ***– Brendan O'Brien, chief architect and co-founder of Aria Systems***

IoT has already started improving the quality of life. In London, where up to 9,000 deaths per year are attributed to air pollution, companies have been testing sensors that are distributed to bicycle couriers and mounted on fleets of cars.[1] The sensors, which transmit data to smartphones via Bluetooth, allow monitors to create real-time maps showing air pollution levels around the city.

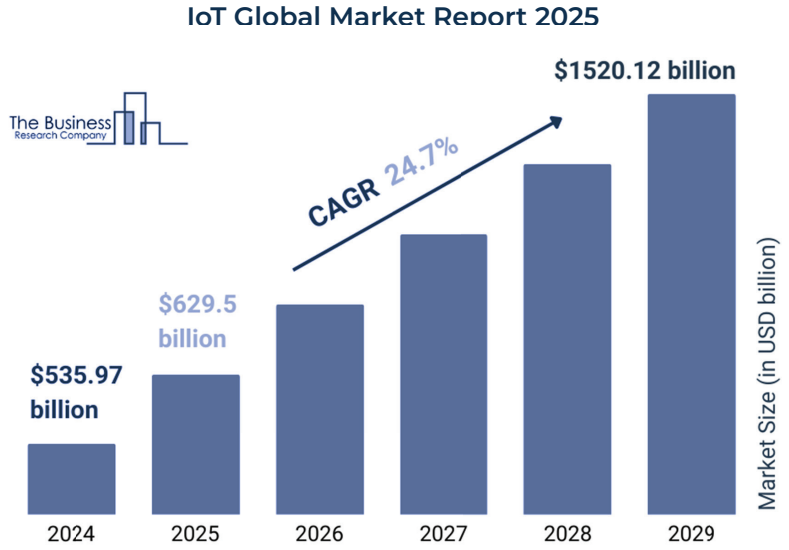
As mobile technology proliferates across the developing world, healthcare workers are finding new solutions for profound challenges. In response to the Ebola outbreak in West Africa, Scripps Translational Science Institute brought together medical device companies to test a patch with integrated sensors to track heart rate, blood oxygen saturation, respiration rate and temperature. The device, which transmits data over Bluetooth, reduces physical interaction with people who may be infected.[2]



[1] *Breathe London. (2025, April 07). Retrieved from https://www.breathelondon.org*
[2] *Remote Sensing in Ebola Treatment Units | Scripps Research. (2025, April 07). Retrieved from https://www.scripps.edu/science-and-medicine/translational-institute/translational-research/digital-medicine/remote-sensing-in-ebola-treatment/index.html*

The Global Picture

In 2024, the global Internet of Things (IoT) market experienced substantial growth, driven by widespread adoption across various sectors and advancements in related technologies. The market expanded from USD 535.97 billion in 2024 to USD 629.5 billion in 2025 at a compound annual growth rate (CAGR) of 17.5%.[3] This growth is largely due to the popularity of connected devices, data analytics and insights, industrial automation, smart cities initiatives, and healthcare transformation.



The Asia Pacific region has emerged as a dominant force in the IoT landscape, with a market size valued at USD 277.5 billion and forecast to reach USD 435 billion by 2027. This growth is fueled by smart city initiatives in countries like South Korea, Singapore, and Japan, alongside a surge in industrial automation.

North America also plays a significant role, particularly in the medical and industrial IoT sectors, as well as investments in retail and smart home technologies. The region's emphasis on enhancing consumer convenience and operational efficiency through IoT, coupled with the presence of tech giants and innovative startups, solidifies its position.

Europe's approach to IoT centers on enhancing operational efficiency and sustainability, with a keen focus on the manufacturing and energy sectors. Initiatives such as Industry 4.0 and

[3] *IoT Market Report 2024 - Internet of Things Market Growth and Forecast. (2025, January). Retrieved from https://www.thebusinessresearchcompany.com/report/iot-global-market-report*

smart energy grids are prominent, reflecting the region's dedication to leveraging IoT for economic growth and environmental sustainability.

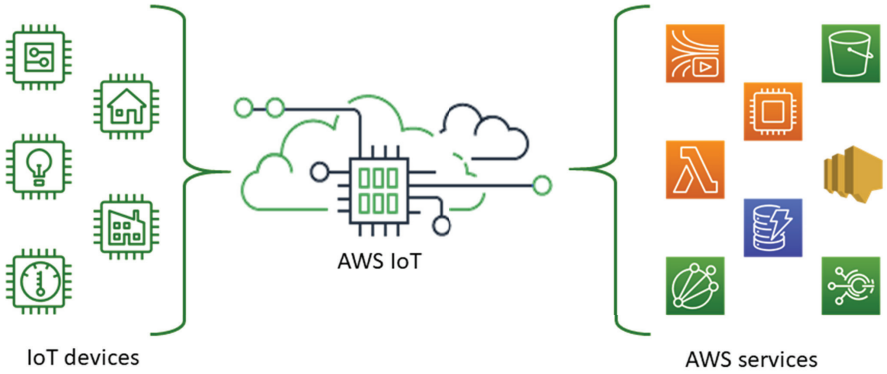
Several companies have been instrumental in driving IoT advancements:[4]

Siemens: A leader in industrial IoT (IIOT), integrating solutions into factories, logistics systems, and energy grids. In 2023, Siemens launched new IIoT products aimed at optimizing smart factories and industrial automation.

Cisco: Specializes in networking and cybersecurity solutions, facilitating secure and efficient connectivity across industries.

General Electric (GE): With its Predix platform, GE remains at the forefront of industrial IoT, integrating systems into over 1,000 manufacturing plants worldwide by 2023 to optimize machine performance and predictive maintenance.

Amazon Web Services (AWS): Provides cloud infrastructure for a wide range of IoT solutions, offering businesses scalable platforms for managing devices and data.



The VC Landscape

In 2024, the global venture capital (VC) landscape for IoT startups demonstrated robust activity, marked by significant funding rounds and evolving investment trends. Some notable funding success stories include:

Ōura: In December 2024, Finnish health-tracking smart ring manufacturer Ōura secured USD 200 million in new funding, elevating its valuation to USD 5.2 billion.[5] This round was led by Fidelity Management and included participation from Dexcom, a U.S.-based glucose-monitoring group. The capital is intended to support product expansion, artificial intelligence investments, and potential acquisitions

[4] *Internet of Things (IoT) Market Size | Industry Statistics 2024 to 2034. (2025, January). Retrieved from https://www.precedencere-search.com/iot*
[5] *Bradshaw, T. (2024). Smart ring start-up Ōura raises $200mn as valuation leaps to $5.2bn. Financial Times. Retrieved from https://www.ft.com/content/48a9d56d-73e5-448a-8254-8aaa02954270*

Myriota: Adelaide-based nanosatellite IoT company Myriota received a USD 50 million investment from the Australian federal government and private investors.[6] This funding aims to create 100 high-skilled jobs and enhance the company's global presence, particularly in sectors like agriculture, defense, and mining.

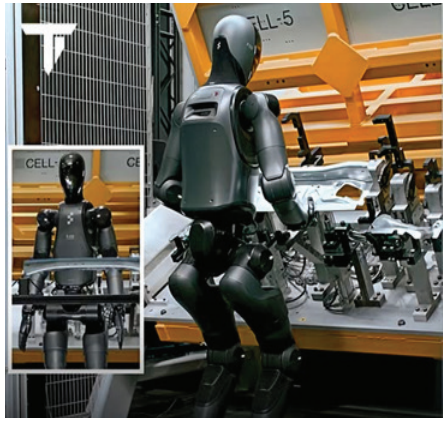


Figure: U.S.-based robotics startup Figure, founded in 2022, raised a substantial USD 675 million in Series B funding.[7] The company focuses on developing autonomous, general-purpose humanoid robots to address workforce challenges such as labor shortages. In January 2024, Figure entered a commercial agreement with BMW to deploy robots in BMW's Spartanburg, South Carolina, manufacturing facility.

In terms of investor activity Techstars maintained its position as a leading IoT startup investor, with investments in 73 active IoT startups founded between 2016 and 2024.[8] This figure more than doubles the 31 investments by the U.S. National Science Foundation, the second-largest investor in this category. Investments increasingly favored IoT startups integrating advanced technologies such as edge computing, 5G connectivity, blockchain for security, and artificial intelligence. These technologies enhance real-time data processing, connectivity, security, and intelligent decision-making within IoT ecosystems.[9]

Emerging markets, particularly in Asia and Africa, attracted growing VC interest due to expanding middle classes, increased internet penetration, and supportive government policies. This trend reflects a broader diversification of IoT investments beyond traditional hubs.

In summary, 2024 was a pivotal year for IoT venture capital, characterized by substantial funding rounds, a shift toward diverse industry applications, and a focus on integrating advanced technologies.



[6] *Reporter, S. (2024). NRFC invests $25 million in Myriota's $50 million funding round - Australian Manufacturing Forum. Australian Manufacturing Forum. Retrieved from https://www.aumanufacturing.com.au/nrf-invests-25-million-in-myriotas-50-million-funding-round*
[7] *Varghese, H., & Hu, K. (2024). Robotics startup Figure raises $675 mln from Microsoft, Nvidia, OpenAI. Reuters. Retrieved from https://www.reuters.com/technology/robotics-startup-figure-raises-675-mln-microsoft-nvidia-other-big-techs-2024-02-29*
[8] *IoT Startup Landscape 2024: 7 notable insights. (2025, April 07). Retrieved from https://frequencytraders.com/2024/08/01/iot-start-up-landscape-2024-7-notable-insights/*
[9] *Internet of Things: The Network of Opportunity and Investment in 2024 - FasterCapital. (2024, July 02). Retrieved from https://fastercapi-tal.com/content/Internet-of-Things--The-Network-of-Opportunity-and-Investment-in-2024.html*

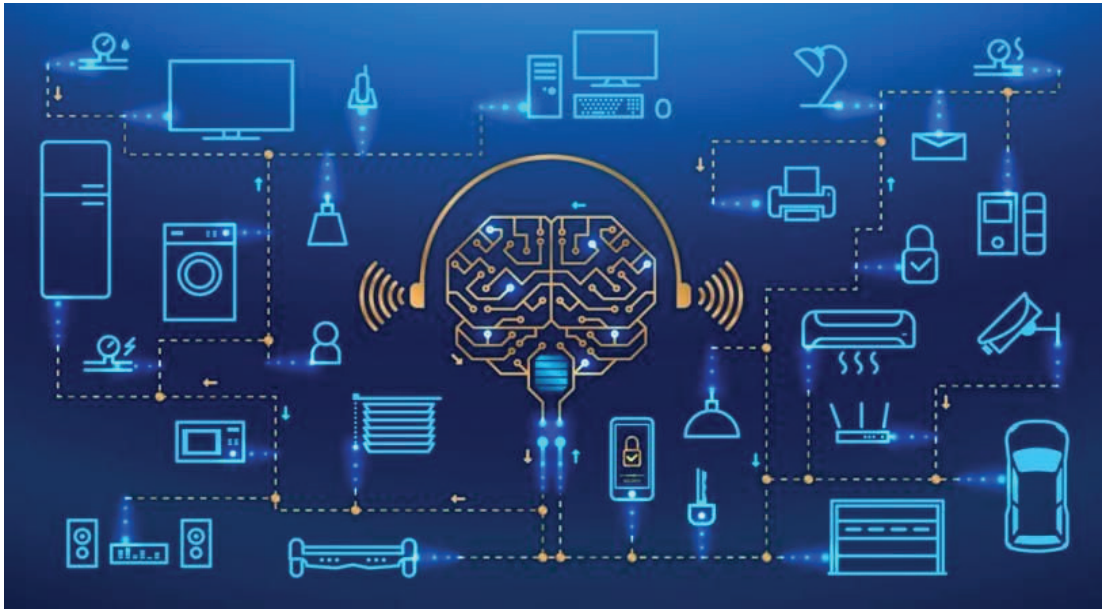
IoT Landscape in Pakistan

The IoT industry in Pakistan has witnessed notable developments in recent years, driven by regulatory initiatives, increasing IT exports, and innovative applications across various sectors.

Regulatory Framework and Government Initiatives

In February 2022, the Pakistan Telecommunication Authority (PTA) introduced a regulatory framework for short range devices and terrestrial IoT services.[10] This framework aims to facilitate IoT service operations and accelerate the development of an IoT ecosystem in the country. It also includes guidelines for low-power wide-area network (LPWAN) licensing. The initiative supports the government's vision of a Digital Pakistan by promoting IoT-enabled systems in sectors such as smart homes, smart meters, and transportation.





By May 2022, PTA had issued 19 LPWAN licenses to bolster IoT services. In July 2024, the authority commenced an IoT performance survey to evaluate the progress and impact of these licenses. The survey involves on-site assessments of IoT installations to determine the efficacy of current deployments and inform future licensing decisions.[11]

Pakistani startups have also been leveraging IoT to address local challenges. For instance, Asani.io, a Karachi-based startup, developed a system to improve water access in a city where the supply meets only about 50% of the demand.[12] This initiative aims to provide a more reliable water supply to over 20 million residents facing irregular access.

While the regulatory framework and growing IT exports lay a foundation for IoT development, challenges such as cybersecurity, data privacy, and infrastructure readiness persist. Addressing these issues is crucial for the sustainable growth of the IoT industry in Pakistan. Collaborations between the government, private sector, and academia are essential to foster innovation and build a robust IoT ecosystem.

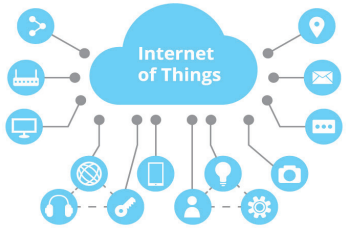
To summarize, Pakistan's IoT industry is in a developmental phase, supported by regulatory measures and a burgeoning IT sector. Continued efforts in policy implementation, infrastructure development, and capacity building are vital to harness the full potential of IoT technologies in the country.

The Role of Telcos

IoT technology is heavily dependent on the availability of mobile internet. This includes highways, farms, and remote regions of the country. In Pakistan, all major mobile service providers (Zong, Jazz, Ufone, Telenor) are actively competing to capture this emerging market. Different mobile service providers are competing to provide 4G and 4G+ coverage across the entire landscape of Pakistan.[13]

With good internet availability, there is potential to tap the IoT market across various industries, including logistics, home automation and farming. Mobile service providers have launched exciting products and services to tap these markets. For instance, one of Pakistan's leading mobile giants, Jazz offers GSM enabled IoT routers which can connect with IoT devices anywhere and transmit data.[14] Additionally, they provide tracking devices for asset management and logistical planning and dashcam cameras to ensure traffic safety.

Zong, another premier provider, also offers a host of IoT services to businesses in applications including fleet management, fuel monitoring, and asset management.[15]



[10] PTA Issues Regulatory Framework for SRD and IoT Services. (2025, April 07). Retrieved from https://www.pta.gov.pk/category/pta-issues-regulatory-framework-for-srd-and-iot-services-127226206-2023-06-01
[11] Staff, P. (2024). PTA Begins Internet of Things Performance Survey. ProPakistani. Retrieved from https://propakistani.pk/2024/07/10/pta-begins-internet-of-things-performance-survey/
[12] Johnson, A. D. (2024). A Pakistani Start-up is Changing the Way People Access Water. Time. Retrieved from https://time.com/7024050/pakistan-asani-water-access-startup/
[13] 3G / 4G / 5G coverage in Pakistan - nPerf.com. (2024, November 02). Retrieved from https://www.nperf.com/en/map/P-K/-/19024.Ufone/signal?ll=28.729130483430154%E2%89%B6-71.90551757812501&zoom=6
[14] Jazz Business | Mobility and Enterprise Solutions for your Business. (2024, November 02). Retrieved from https://jazz.com.pk/business/solutions/internet-of-things/iot-devices
[15] Zong Pakistan. (2024, October 30). Retrieved from https://www.zong.com.pk/business/iot-m2m



Telenor has established an IoT lab for verifying the reliability and performance of customer IoT devices prior to deployment.[16] They offer a comprehensive testing environment that replicates real-world network conditions and scenarios, helping users identify and address potential issues early on.

This healthy competition between mobile service providers offers a conducive environment for leveraging the IoT potential in Pakistan.

In 2023, the Federal Cabinet approved the long-awaited 5G spectrum auction, which will be conducted by a commission headed by the finance minister, according to the Minister of Information Technology and Telecommunication. With 300 Megahertz available, this spectrum has the potential to further revolutionize Pakistan's mobile internet and services environment.

In a recent development, the Punjab IT Board has set up free Wi-Fi at 200 points in Lahore, 10 in Kasur, 15 in Sheikhupura, and 5 in Nankana Sahib.[17] The focus of the deployment has been on public places like hospitals, universities, and bus stations. Since its latest expansion in June 16, 2024, over 7.7 million users have consumed 111 terabytes of data, with a service availability rate of 98.7%. Free WiFi initiatives in this vein will further promote IoT applications.

The Emerging Smart Home Appliances Market

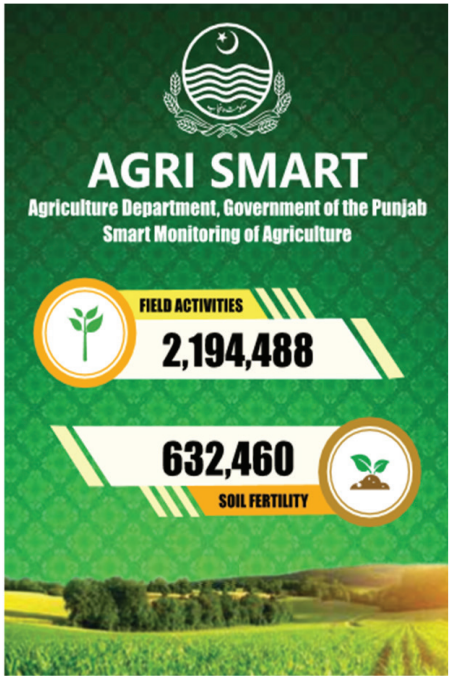
With the current challenge of rising energy costs, smart home appliances have emerged as another potential market in Pakistan. The ability to monitor and control home appliances with mobile phones attracts the current consumer market in Pakistan. Orient Electronics is a leading home appliances company in Pakistan with products including air conditioners, LED TVs, refrigerators, microwave ovens, water dispensers, and washing machines, that have leveraged IoT solutions to dominate the market.[18]



[16] *Telenor IoT Test Lab. (2024, August 20). Retrieved from https://iot.telenor.com/offering/iot-services/test-lab*
[17] *Punjab Free WiFi Hotspots | PITB. (2025, April 07). Retrieved from https://pitb.gov.pk/pwifi*
[18] *About Us. (2024, November 02). Retrieved from https://orient.com.pk/pages/about-us*

Government Initiatives to Promote IoT-based Smart Farms

Water is a lifeline in agrarian economies like Pakistan. Despite being the fifth richest country in water resources, Pakistan is ranked 14th among 17 countries with the most extreme water risks. More than 80% of the total population faces severe water shortages for at least one month a year. As per a report by the Pakistan Institute of Development Economics, Pakistan could be confronted by 'water scarcity' as early as 2025.[19]



To combat this challenge AI-based agriculture equipment is being deployed in Pakistan. The Punjab Information Technology Board has signed an MoU with Sync & Secure Technologies Private Ltd. followed by a visit to the Adaptive Research Center, Vehari to deploy the equipment.[20] The planned agro-stations will use AI to adapt to climate change and assist farmers in taking timely actions. These systems will decrease operational costs while increasing overall agricultural yield and also contribute to other productive outcomes.

Radical Growth Solutions: a Pakistani startup with a smart farming system to combat climate effects.

Thought For Food® is the world's entrepreneurial innovation engine for food and agriculture. This organization works with more than 30,000 next-generation leaders from over 175 countries, empowering them to generate and scale breakthrough business ventures that build sustainable, inclusive, and resilient food systems. Their comprehensive suite of next-gen innovation programs includes the TFF Challenge, an annual collaborative innovation prize competition.

Radical Growth Solutions was 2022 TFF Finalist from Pakistan.[21] This winning team provides climate-affected farmers with a simple and affordable smart farming system that improves water and fertilizer-use efficiency. By deploying Radical Growth's smart farming system, growers have reported experiencing water savings of up to 80%, they have reduced input resource use by 70%, and increased their yields by 15%.

[21] *Radical Growth Solutions: a Pakistani startup with a smart farming system to combat climate effects. | Thought For Food. (2023, March 22). Retrieved from https://thoughtforfood.org/content-hub/radical-growth-solutions-a-pakistani-startup-with-a-smart-farming-system-to-combat-climate-effects*

Water Sustainability with Asani

Asani.io, founded by Ansab Naqvi, is a Karachi-based IoT startup specializing in smart water management solutions for domestic, commercial, and industrial applications. The company has developed a system that integrates sensors within water mains, connecting them to automated systems in buildings. These systems detect water flow and automatically activate electric motors to fill storage tanks, thereby reducing water wastage and optimizing usage.[22]

Asani.io's technology addresses Karachi's significant water shortage, where the supply meets only about 50% of the demand, leaving over 20 million residents with irregular access. By automating water collection, Asani.io has improved the reliability of water access for numerous households. As of recent reports, the system has been installed in approximately 1,000 homes and several businesses, contributing to more efficient water distribution and conservation.

The company's IoT-based solution comprises sensors placed inside water mains, which are linked to automated systems in residences and commercial establishments. These sensors detect the presence of water flow and trigger electric motors to fill storage tanks automatically. This automation reduces the manual effort required to monitor water availability and ensures optimal utilization of available water resources.



In September 2021, Asani.io was recognized at the Shell Tameer Awards, winning in the Technology Innovation category. Asani.io was among the top six startups selected from 125 applications.[23] In February 2022, Asani.io participated in the LEAP Riyadh information technology exhibition in Saudi Arabia. The startup emerged as a semifinalist in the LEAP Rocket Fuel Startup Competition, which saw participation from 1,400 startups globally. This recognition facilitated Asani.io's plans to expand into the Saudi market, with negotiations underway to establish execution partnerships within the kingdom.

Asani.io's innovative solutions have garnered attention both domestically and internationally. The company's participation in global exhibitions and competitions underscores its potential to address water management challenges in other regions facing similar issues. By leveraging IoT technology, Asani.io aims to contribute to more sustainable and efficient water usage practices, potentially expanding its impact beyond Pakistan's borders.

[22] *Ahmed, K. (2022). Pakistani water solution startup eyes Saudi Arabia expansion after Riyadh exhibition. Arab News PK. Retrieved from https://www.arabnews.pk/node/2024266/pakistan*
[23] *Report, R. (2021). Six startups win Shell Tameer Awards. Brecorder. Retrieved from https://www.brecorder.com/news/40121256*

IoT Companies in Pakistan

IoT companies in Pakistan can be broadly classified into the following categories:

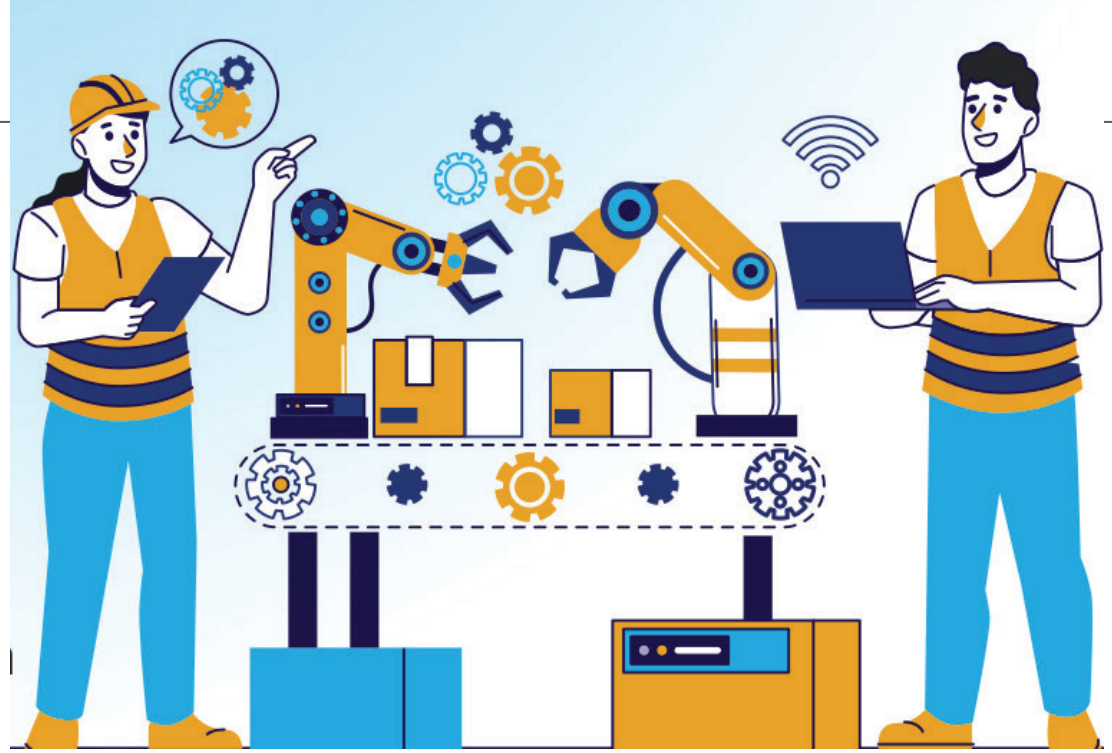
Category	Companies
Manufacturing / Industrial	Energy and Automation, A3Logics Inc.
Transportation	TPL Trakker, Car Chabi
Energy	Zigron ,Metis Pvt International
Healthcare	Cogniteq, Neurobotx, SmartNeura
Agriculture and SupplyChain	Bitsol ,Data Pilot, Zam Stack Technology
Cities	Origami Studios, Smart Innovations, Okasha Smart
IoT Solution Providers	Amsiot, Codiro, Connectify, CricFlex, Datum Brain, Sudofy, Technosoft Solutions, Digital Dividend, DevsAxe, DPL, Relacom, Renzym, Sawie, SmartNeura, Devomech Solutions, Digitalux Pakistan, Rank Sol, Bit IoT, Vadion, Spectro Systems, 10 Pearls, Jazz IoT Solutions, Devsinc, DigyCorp, BitCraftology, AthenaAI, Kalhost Web Hosting, Softifyme, Utor Solutions, Teresol, Txtsol

AMS IOT

Amsiot

AMS IoT is a forward-thinking company specializing in custom Internet of Things (IoT) solutions tailored to enhance various industries, including healthcare, smart homes, and agriculture. As part of the AMS Group of Companies, AMS IoT leverages Industry 4.0 technologies to deliver innovative, automated solutions that optimize efficiency, productivity, and connectivity. Their services encompass cloud computing, automation, and industry-specific IoT technologies, empowering businesses to transform into highly connected and efficient ecosystems.

The company has been recognized for its innovative contributions to the IoT and Industry 4.0 sectors, developing groundbreaking solutions across multiple industries. Notable success stories include AalaCar, an advanced automotive startup from Canada that





utilizes AMS IoT technology for smart vehicle systems, and Chippy, a cutting-edge device designed for controlling loads in recreational vehicles. Additionally, AMS IoT's Smart Cushion promotes better posture for office workers, and their Pressure Controller enhances industrial performance, exemplifying the company's commitment to delivering impactful, custom IoT solutions.

AMS IoT distinguishes itself with fully customizable IoT solutions tailored to specific industry needs, expertise in Industry 4.0 standards, and proficiency in technologies like LPWAN, Zigbee, and BLE. Their comprehensive services, including cloud computing, automation, and advanced control systems, facilitate businesses' transition into connected ecosystems. The company's IoT solutions have achieved over 95% customer satisfaction, with successful project implementations across various industries. With a growing global presence, AMS IoT has served clients such as Nestle, Wartsila, and ICI, reflecting its reliability and impact in the IoT market.

AMS IoT's product portfolio includes the AalaCar Device for Vehicles, which integrates smart technology into automotive systems to enhance safety and efficiency. Chippy is a smart device designed for recreational vehicles, providing users with advanced load control capabilities. The Smart Cushion is an innovative solution aimed at improving posture and comfort for office workers who sit for extended periods. Their Pressure Controller is engineered to optimize industrial performance by maintaining precise pressure levels in various applications. In addition to these products, AMS IoT offers custom IoT solutions, automation and control systems, and Industry 4.0 solutions, all designed to meet the unique needs of their clients.

Primary Products

- **AalaCar Device for Vehicles:** Integrates smart technology into automotive systems to enhance safety and efficiency.
- **Chippy:** A smart device for recreational vehicles, providing advanced load control capabilities.
- **Smart Cushion:** An innovative solution aimed at improving posture and comfort for office workers who sit for extended periods.



Bitsol

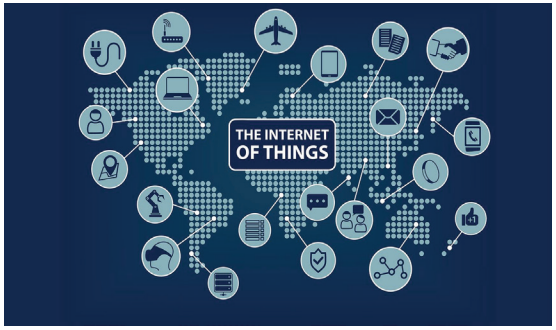
Bitsol Technologies is a dynamic software development company specializing in innovative digital solutions across various industries. Their services encompass web and mobile app development, blockchain, artificial intelligence (AI), and Internet of Things (IoT) solutions. By leveraging the latest technologies, Bitsol assists businesses in achieving digital transformation, streamlining operations, and enhancing customer experiences through custom-tailored software solutions. With a commitment to excellence, Bitsol Technologies partners with businesses to drive growth and innovation in the digital age.

The company has garnered recognition for its exceptional contributions to the software development industry, consistently delivering high-quality solutions across various sectors. Bitsol has built a reputation for excellence, particularly in industries such as healthcare, EdTech, e-commerce, and real estate. Their agile approach and innovative use of AI and machine learning have been instrumental in mentoring startups like DataBashi, Touch'd, and DeafTawk. Clients globally have acknowledged Bitsol's ability to rescue projects, provide top-tier development services, and scale businesses effectively.



Bitsol Technologies' unique selling propositions include a tailored approach to software development, combining innovative technologies like AI, machine learning, and IoT with industry-specific expertise. The company delivers cost-effective solutions with high-quality standards and ensures on-time delivery. Their global team of skilled professionals offers round-the-clock availability, proactive support, and transparent communication. With over 100 successful projects and more than 100,000 productive hours, Bitsol's diverse portfolio spans healthcare, EdTech, and e-commerce, establishing them as a trusted partner in driving digital transformation for businesses worldwide. citeturn0search6

In the IoT domain, Bitsol Technologies offers comprehensive solutions that integrate seamlessly with existing systems to enhance operational efficiency. Their IoT services include the development of smart applications for various industries, enabling real-time data monitoring and analytics. By utilizing IoT technology, Bitsol helps businesses automate processes, reduce costs, and improve decision-making capabilities. Their expertise in IoT is complemented by their proficiency in AI and machine learning, providing clients with intelligent systems that adapt and respond to dynamic environments.



Primary Products

- **Smart Healthcare Monitoring System:** An IoT-enabled platform that allows real-time monitoring of patient vitals, enhancing patient care and operational efficiency in healthcare facilities.
- **IoT-based Asset Tracking Solution:** A system designed to provide real-time tracking and management of assets across various industries, improving logistics and inventory management.
- **Smart Home Automation System:** An integrated IoT solution that enables users to control and monitor home appliances remotely, enhancing convenience and energy efficiency.

> *We've been working with Bitsol Technologies for several years now and our experience has been great. Bitsol Technologies took over our development work in the aftermath of a failing project and inherited a badly written and badly managed code. They not only took full control of the dev efforts with minimal ramp-up time but also delivered a high-quality architecture with well-documented and maintainable code. Highly recommended for web and mobile dev projects.*
> *– Ghazenfer Mansoor, CEO, Technology Rivers*

> *Nova has had a relationship with Bitsol Technologies for more than 18 months, and it has been a pleasure working with them. They have been flexible enough to provide engineers with different skill sets at short notice, and have always accommodated extensions when we have requested them. Most importantly the caliber of the engineers they have provided has been very high, and all of my Team Leads have commented on both the quality and speed of their delivery.*
> *– Andy Speakman, CTO, Nova*

Coding Pro

Coding Pro is an IT solutions provider based in Lahore, Pakistan, with origins in Melbourne, Australia. Specializing in custom development and technical training, the company integrates innovative technologies, including the Internet of Things (IoT), to deliver tailored solutions across various industries. Their diverse team of experts is dedicated to empowering clients through continuous learning and developing solutions that address the evolving needs of modern businesses.

The company has been recognized as a Certified App Development Partner for KaiOS and Jio, underscoring its proficiency in creating advanced applications. With over 100 satisfied clients and the successful completion of more than 100 projects, Coding Pro's commitment to delivering high-quality IT solutions is evident. This recognition reflects their dedication to excellence in the technology landscape and their focus on fostering innovation and growth for clients in various domains, including the IoT sector.

Operating for over six years, Coding Pro comprises a dedicated team of more than 50 professionals. They have completed over 100 projects, accumulating over 20,000 working hours. With a strong emphasis on customer satisfaction, they provide support to clients 365 days a year, ensuring assistance is always available. Their commitment is further demonstrated by an impressive roster of over 100 happy clients.

In the IoT domain, Coding Pro offers comprehensive solutions that integrate seamlessly with existing systems to enhance operational efficiency. Their services include the development of smart applications tailored to various industries, enabling real-time data monitoring and analytics. By utilizing IoT technology, Coding Pro assists businesses in automating processes, reducing costs, and improving decision-making capabilities. Their expertise extends to custom IT solutions, mobile app development, web development, technical training, UI/UX design, and software development, all designed to meet the unique needs of their clients.

Primary Products

- **IoT-based Asset Tracking Solution:** A system designed to provide real-time tracking and management of assets across various industries, improving logistics and inventory management.
- **Smart Home Automation System:** An integrated IoT solution that enables users to control and monitor home appliances remotely, enhancing convenience and energy efficiency.
- **Custom IoT Solutions:** Tailored IoT applications developed to meet specific business requirements, facilitating digital transformation and operational efficiency.

Codiro

Codiro Technologies specializes in transforming ideas into high-quality digital solutions, offering services in web development, mobile app development, digital marketing, UI/UX design, and more. Their focus is on delivering innovative, user-friendly platforms tailored to client needs across various industries, such as automotive, finance, healthcare, and education. Codiro's expertise ranges from developing e-commerce solutions to IT outsourcing, helping businesses establish a strong online presence with cutting-edge technology.

The company has worked on impactful projects, including developing a virtual learning platform for QuranEdu.Online and creating a real-time air quality monitoring system for Red Sea Global. Their unique selling points include a focus on custom, high-performing solutions, utilizing advanced technologies for industries like finance, education, and healthcare. Specializing in e-commerce, web development, and tailored digital platforms, Codiro offers bespoke solutions that enhance user experiences and meet specific business needs. Codiro's service offerings encompass a wide range of digital solutions. In web development, they utilize technologies such as WordPress, CMS, PHP, ASP.Net, Laravel, AngularJS, ReactJS, VUE.JS, and NodeJS to create responsive and dynamic websites. Their mobile application development services cater to both iOS and Android platforms, delivering user-friendly and functional apps. In digital marketing, Codiro provides SEO optimization, social media management, and targeted advertising campaigns to enhance online visibility. Their UI/UX design services focus on creating intuitive and engaging interfaces, while their copywriting and content creation services ensure compelling and relevant content. Additionally, Codiro offers branding and creative design, video marketing, and IT outsourcing services to meet diverse client needs.

Codiro Technologies has been recognized for its contributions to the tech industry. Notably, the company has been honored with two Golden Bridge Awards®, being named "Technology Company of the Year."

Primary Products

- **Virtual Learning Platform for QuranEdu.Online:** An educational platform designed to facilitate online Quranic education, providing interactive learning tools and resources.
- **Real-Time Air Quality Monitoring System for Red Sea Global:** A system that provides real-time data on air quality, aiding in environmental monitoring and decision-making.
- **E-commerce Solutions:** Customizable online store platforms that offer seamless shopping experiences, inventory management, and payment integration.

An IOT Company

Connectify
smart people smarter living

Connectify

Connectify Pakistan is a pioneer in smart home and business automation services within the country. They offer integrated solutions featuring advanced technology, providing personalized systems that encompass smart security, lighting, and energy management. Their services are designed for seamless control via mobile applications or voice commands, enhancing convenience, safety, and energy efficiency for both residential and commercial clients. With in-house consultation, professional installation, and 24/7 customer support, Connectify aims to revolutionize the automation experience across Pakistan.



While specific awards and accolades are not detailed, Connectify Pakistan has established a strong reputation as a leader in the smart home automation sector. Their innovative solutions have been recognized for enhancing modern living and business environments, contributing significantly to the advancement of automation technology in the region.

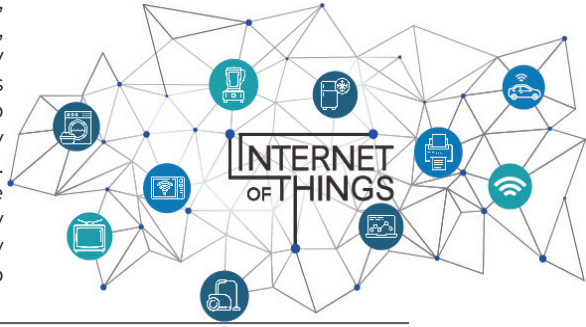


Connectify's unique selling proposition lies in its comprehensive smart automation solutions, offering seamless integration for homes and businesses. Their systems include advanced smart security measures, energy management tools, and lighting control, all accessible through user-friendly apps or voice commands. A key differentiator is their provision of professional consultation and installation services, complemented by 24/7 customer support, ensuring a hassle-free experience for clients. To date, Connectify has successfully implemented over 500 projects, solidifying their position as a trusted provider of automation technology in Pakistan.

Connectify's product lineup includes smart home automation systems that enable users to control lighting, security, and appliances remotely, enhancing convenience and energy efficiency. Their smart business automation solutions are tailored to optimize operational efficiency through integrated control systems. Smart security solutions offer real-time monitoring and alerts, bolstering safety for both homes and businesses. Energy management systems are designed to monitor and optimize energy consumption, promoting sustainability and cost savings. Lighting control systems allow for customizable lighting scenarios, improving ambiance and reducing energy usage. All these systems are designed for app and voice control, providing users with intuitive and accessible interfaces. Professional consultation and installation services ensure that each system is tailored to the specific needs of the client, and 24/7 customer support guarantees ongoing assistance and satisfaction.

Primary Products

- **Smart 1 Gang WiFi Switch:** A device that allows users to control a single lighting circuit remotely via WiFi, enhancing convenience and energy efficiency.
- **Smart Video Door Bell:** A doorbell equipped with video capabilities, enabling homeowners to see and communicate with visitors remotely, enhancing security.
- **Smart WiFi Curtain:** A system that allows users to control their curtains remotely through WiFi, providing convenience and integration into smart home scenarios.



CricFlex

CricFlex, established in 2016 and based in Islamabad, Pakistan, is the world's first patented wearable technology designed specifically for cricketers aiming to enhance their performance. The company's flagship product is an arm sleeve embedded with sensors that track key metrics such as arm force, action time, and spin. This innovative device automatically detects illegal bowling actions and displays the results on a smartphone app, providing real-time feedback to help bowlers refine their techniques and achieve professional success.

The company has garnered attention from notable platforms, including ESPN Cricinfo, MIT, SXSW, and the Pakistan Startup Cup, for its groundbreaking contributions to cricket training technology. Additionally, organizations such as Telenor, Business Recorder, and The Indian Express have highlighted CricFlex's advancements. These recognitions underscore the company's role in revolutionizing cricket training through wearable technology.

CricFlex's unique selling proposition lies in its sensor-based sleeve that provides real-time analysis of bowling actions, assisting cricketers in improving their performance with precision. The device's ability to detect illegal bowling actions offers a significant advantage for players seeking to comply with professional standards. By delivering instant feedback, CricFlex enables athletes to make necessary adjustments promptly, enhancing training efficiency.

In addition to its flagship product, CricFlex offers cricket coaching and training programs designed to complement the use of their wearable technology. These programs provide personalized guidance to players, focusing on technique improvement and performance optimization. The integration of wearable technology with professional coaching equips cricketers with comprehensive tools to elevate their game.

Primary Products

- **CricFlex Wearable Sleeve:** A sensor-embedded arm sleeve that detects illegal bowling actions and provides real-time feedback via a smartphone app, aiding bowlers in refining their techniques.
- **Wearable Arm Sleeve with Sensors**
- **Illegal Bowling Action Detection**
- **Smartphone Connectivity for**
- **Real-Time Feedback**
- **Metrics Tracking (Arm Force, Action Time, Spin Rate)**
- **Advanced Visual Performance Analysis**
- **Long Battery Life (Up to 12 Hours)**
- **Comfortable and Stretchable Fabric Design**

Datum Brain

DatumBrain is a data-driven startup specializing in advanced analytics and artificial intelligence to revolutionize business data utilization. Their innovative solutions integrate seamlessly into existing systems, enabling organizations to make informed decisions, optimize operations, and explore new growth opportunities. With a focus on excellence and a customer-centric approach, DatumBrain simplifies complex data challenges, making analytics accessible and actionable for businesses of all sizes.

The company has received recognition for its contributions to the technology sector, earning awards that highlight its commitment to excellence and client satisfaction. DatumBrain's cutting-edge solutions in artificial intelligence and data engineering have been acknowledged for their quality and user-friendliness. Additionally, the company's effective project management and timely delivery have garnered positive reviews from clients across various sectors, underscoring its dedication to empowering businesses through technology and its role in digital transformation.

DatumBrain offers a suite of products designed to address diverse data needs. DatumBrain AI provides machine learning models that deliver predictive insights, enhancing decision-making processes. DatumBrain Cloud offers scalable cloud storage solutions, ensuring secure and efficient data management. DatumBrain Vision utilizes computer vision technology to extract valuable information from visual data, aiding in tasks such as image recognition and analysis. DatumBrain Analytics delivers comprehensive data analysis tools that transform raw data into actionable insights. DatumBrain Integration ensures seamless connectivity between various data sources and systems, facilitating smooth data flow across platforms. DatumBrain Edge brings computing capabilities closer to data sources, enabling real-time processing and analysis at the network's edge.

Primary Products

- **DatumBrain AI:** Offers machine learning models for predictive insights, enhancing decision-making processes.
- **DatumBrain Vision:** Utilizes computer vision technology to extract valuable information from visual data, aiding in image recognition and analysis.
- **DatumBrain Edge:** Brings computing capabilities closer to data sources, enabling real-time processing and analysis at the network's edge.



Sudofy

Sudofy is a technology partner specializing in cloud computing, digital transformation, and data-driven decision-making. Their services encompass cloud consultation, assisting businesses in transitioning IT environments through public, private, and hybrid cloud solutions. They provide product analytics to monitor customer engagement and IoT analytics for real-time device data collection, facilitating informed business decisions. Sudofy's expertise in serverless architecture accelerates application deployment, while their WhatsApp solutions utilize chatbots to enhance customer interaction. Additionally, their disaster recovery services ensure business continuity through robust strategies.

In enterprise analytics, Sudofy aids businesses in improving processes with business intelligence and reporting tools. Their cloud transformation services support the digitalization of traditional businesses, and their big data solutions focus on building efficient data architectures. As a technology partner, Sudofy ensures seamless IT scaling with cross-domain certified professionals and conducts cloud audits to optimize performance, security, and cost management. Their services cater to industries such as hospitality, fintech, healthcare, retail, and manufacturing, offering tailored solutions to contemporary business challenges.

Sudofy is an AWS Consulting Partner company dedicated to serving startups, SMEs, and large enterprises with innovative cloud solutions. Their mission is to empower businesses in achieving their goals by providing expertise in AWS. They are a team of AWS-certified individuals ready to tackle various technical challenges head-on.

Sudofy has collaborated with clients across various sectors, delivering backend DevOps services, including setting up AWS Elastic Beanstalk, scalable instances, containers, serverless Lambda, and API infrastructures. Their effective project management and timely delivery have earned positive reviews from clients, highlighting their role in digital transformation.

Primary Products

- **Cloud Consultation**
- **Product Analytics**
- **Data-Driven Decisions**
- **WhatsApp Solutions**
- **Cloud Transformation**
- **IoT Analytics**
- **Serverless Architecture**
- **Disaster Recovery**
- **Big Data Solutions**
- **Technology Partnership**
- **Cloud Audit**
- **Enterprise Analytics**



Technosoft Solutions

Technosoft Solutions is a healthcare software development company with over 17 years of experience in creating applications for hospitals, pharmacies, and healthcare providers. Their services include wearables devices integration, mHealth applications, and HL7 interface management, all designed to connect patient data with electronic health records (EHR) systems. The company adheres to HIPAA compliance, ensuring security and privacy in their projects.

Technosoft Solutions has developed a cloud-based platform that connects patient-recorded data from digital health applications and wearable devices to EHR systems, enabling real-time access to critical patient information. Their mHealth applications enhance accessibility and quality of care for patients and healthcare providers. They also specialize in HL7 interface management, developing and managing interfaces for scheduling, orders, results, and billing. Additionally, they offer disaster recovery solutions to ensure business continuity and improve recovery time objectives (RTOs). Their IoT analytics services provide real-time data analytics from IoT devices, aiding in improved decision-making within healthcare settings. Their expertise extends to serverless architecture, IoT analytics, and disaster recovery solutions, helping healthcare organizations enhance operational efficiency and improve patient outcomes.

The company has collaborated with various clients in the healthcare sector, delivering custom software solutions tailored to the needs of hospitals, pharmacies, and healthcare providers. Their commitment to quality is demonstrated through rigorous adherence to HIPAA compliance, ensuring the highest standards of security and privacy in every project. Technosoft Solutions has been recognized for its role in developing Blue Cross Blue Shield of Michigan's Member Portal mobile application, receiving the prestigious "Team Project Award."

Primary Products

- **Wearables Devices Integration:** A cloud-based platform that connects patient-recorded data from digital health applications and wearable devices to electronic health records (EHR) systems.
- **mHealth Applications:** State-of-the-art health apps for patients and healthcare providers, enhancing accessibility and quality of care.
- **HL7 Interface Management:** Development and management of HL7 interfaces, including scheduling, orders, results, and billing interfaces.

Digital Dividend

Digital Dividend

DD Global Private Limited, also known as Digital Dividend, is a Sweden-based company founded in 2008 with a dedicated team of over 110 developers in Karachi, Pakistan. The company has established strategic partnerships with leading technology firms across the USA, UK, KSA, and UAE, expanding its global presence in the IT sector with a focus on mobile development.

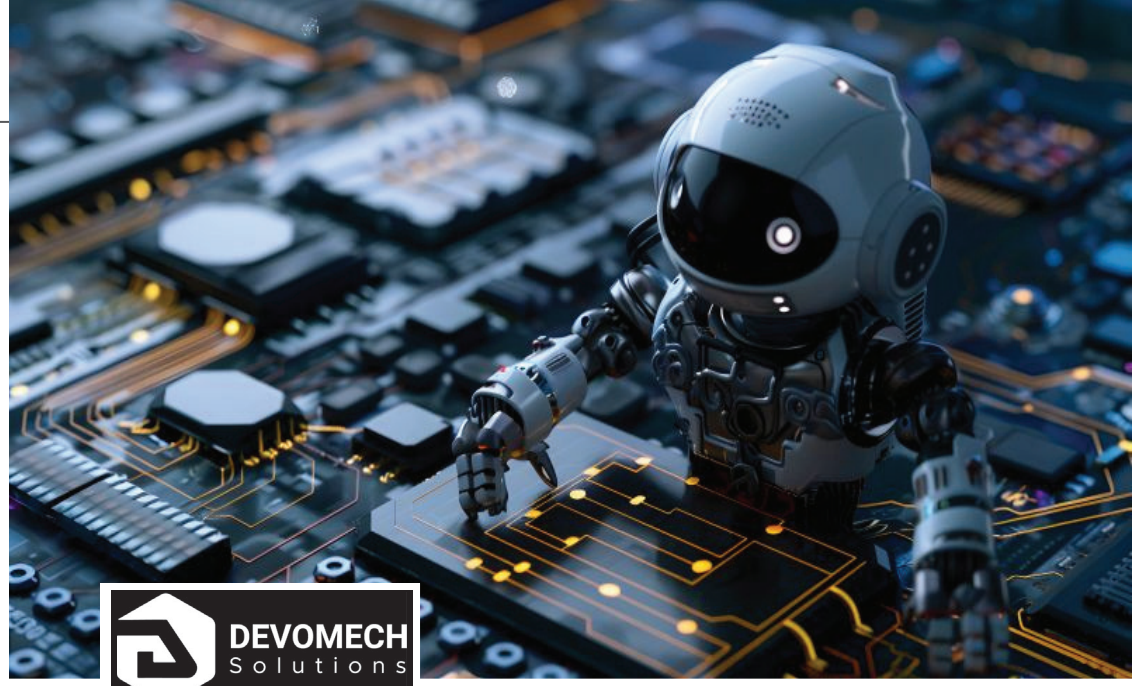
Digital Dividend's diverse team of expert software engineers brings extensive experience in web and mobile applications, CMS, e-commerce, Sitecore/Sitefinity development, embedded systems, IoT, digital production, marketing, and custom IT solutions. The company also offers comprehensive IT consultation, outsourcing, and e-commerce services to clients worldwide.

With a commitment to delivering high-quality solutions that exceed expectations, Digital Dividend leverages its industry expertise, innovation, and business acumen to help clients, from startups to established enterprises, bring their ideas to life. Acting as a hub for collaboration and knowledge exchange, Digital Dividend is driving innovation and shaping future-focused solutions in the tech industry.

Primary Products

- **Website Development**
- **E-commerce Solutions**
- **Mobile App Development**
- **Wearables & IoT Application Development**
- **Content Management Systems (CMS) Implementation**
- **Customer Relationship Management (CRM) & Payment Gateway Integration**





DEVOMECH Solutions

Devomech Solutions

Devomech Solutions GmbH is a forward-thinking IT company committed to innovation and excellence. The team excels at transforming visionary ideas into visually compelling and technically advanced products, delivering solutions that drive business success. With a focus on client satisfaction, Devomech ensures that its creative designs leave a lasting impact, helping clients' businesses flourish.

Specializing in electronics, mechanical engineering, and software development, Devomech brings together skilled professionals who collaborate seamlessly to deliver cutting-edge product designs. Their expertise spans across diverse domains, turning ideas into reality and fostering innovation in every project. Devomech's commitment to quality has earned the company industry recognition, including awards that highlight its dedication to pushing boundaries and delivering outstanding results. The company fosters a culture of creativity, collaboration, and continuous growth, ensuring that each project is approached with a focus on innovation and excellence.

Primary Products

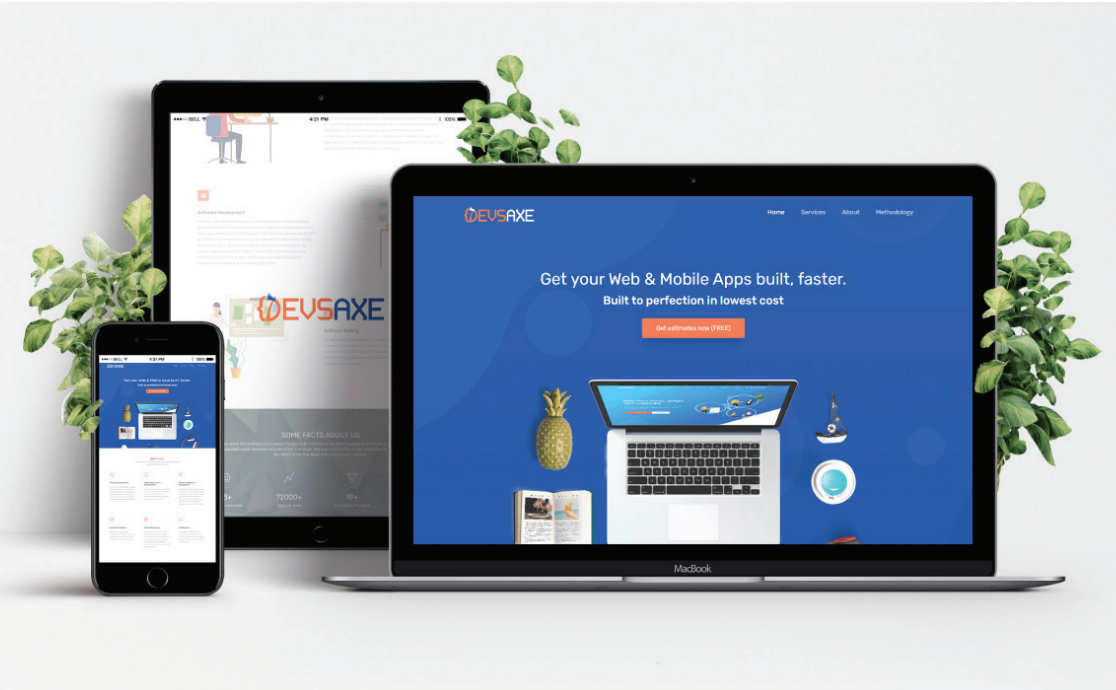
- **Product Design & Prototyping**
- **Internet of Things (IoT) Development**
- **Web, Mobile, and Desktop App Development**
- **Automotive Industry Solutions**
- **Medical Industry Solutions**
- **Automatic Retail Industry Solutions (Vending Machines)**

DevsAxe

DevsAxe is a software consultancy company based in Casper, Wyoming, USA, with a focus on blending technology and people to deliver powerful solutions. With deep expertise in transforming ideas into successful technology products, DevsAxe helps optimize processes and drive revenue growth for its clients. The company's mission is to create resilient, attractive, and high-performing products tailored to meet the evolving needs of businesses.

Specializing in mobile app development, enterprise software, web solutions, and industrial IoT, DevsAxe's handpicked team brings together expertise in a wide range of technology domains. Their capabilities extend to creating innovative IoT solutions that enable businesses around the world to streamline their processes, enhance customer service, and make smarter, data-driven decisions.

With over 15 satisfied customers and 19 successful projects, DevsAxe has invested more than 72,000 hours into delivering high-quality solutions. By prioritizing innovation and client satisfaction, DevsAxe continues to be a trusted partner for companies looking to integrate advanced IoT systems and optimize their technological infrastructure.



DPL

DPL is a leading global software development and IT company, established in 2003. Based in Islamabad, Pakistan, with regional offices in Miami, USA, and Riyadh, Saudi Arabia, DPL serves clients across Europe, the Middle East, and the Americas. The company is recognized for its pioneering role in introducing Agile practices and fostering an innovation-driven culture in Pakistan.

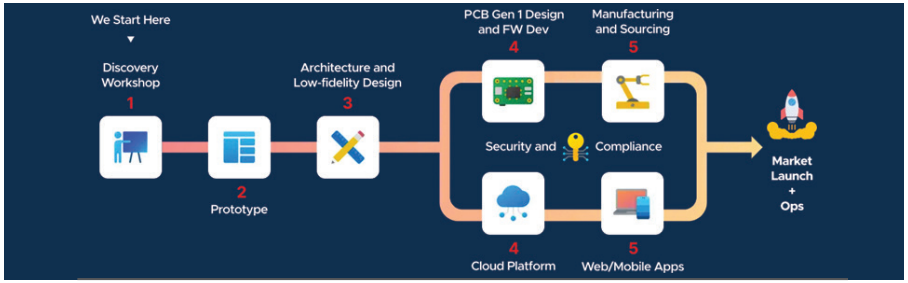
DPL's work environment has earned international recognition for its flat culture and holacratic approach, which empower employees to contribute passionately and drive innovation. This progressive workplace has been featured in numerous global rankings and publications.

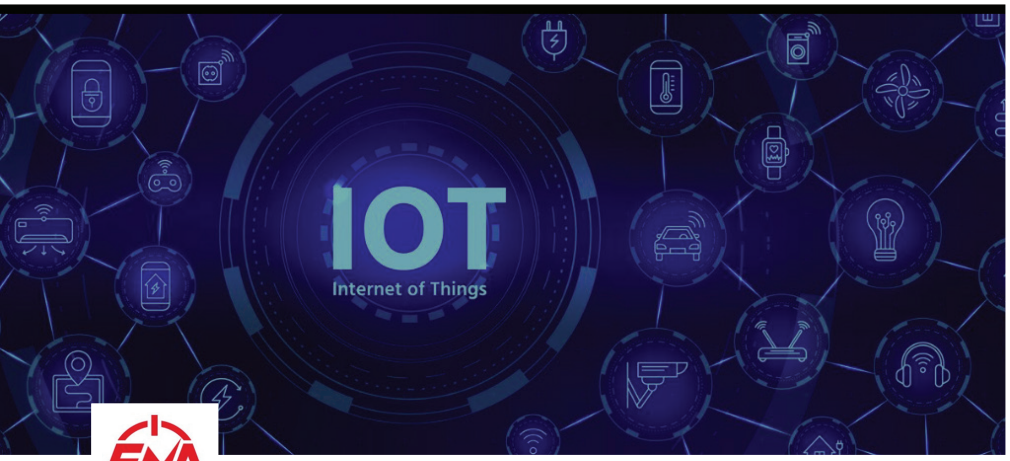
The company's diverse portfolio spans industries such as healthcare, fintech, automotive, mobility, telecommunications, education, media, and e-commerce. DPL specializes in services including digital transformation, product engineering, IT strategy and consulting, and custom software development.

DPL's leadership plays a vital role in shaping the IT landscape in various regions, particularly through their involvement in the #DigitalPakistan campaign. The executive team contributes to policy-making and implementation efforts that drive the digital transformation of the country. Additionally, DPL hosts an annual Agile Conference, promoting the dissemination of best practices in Agile transformation.

Primary Products

- **Custom Software Development**
- **Web App Development**
- **Mobile App Development**
- **Quality Assurance**
- **DevOps and Cloud Services**
- **UI/UX Design**
- **Software Security Services**
- **E-commerce Solutions**
- **IoT and Embedded Development**
- **Data Engineering Services**
- **Digital Transformation Consulting**
- **Resource Augmentation**





Energy and Automation

IoT and data centers have revolutionized the way we live, enabling faster, more efficient devices that keep pace with modern demands. However, power issues can disrupt this efficiency, slowing down our progress in an increasingly competitive world. ENA (Energy and Automation Pakistan Pvt. Ltd.) offers the ultimate solution to power and automation challenges, ensuring that businesses and individuals can continue moving forward without interruption.

As a reliable partner in power and automation, ENA provides expert services to help clients overcome obstacles and avoid potential disruptions. With comprehensive solutions that keep devices running smoothly, even during power outages, ENA ensures seamless operation and supports the journey to success.

Primary Products

- **Super Capacitor Batteries**
- **Data Center Solutions**
- **Smartic AC Controller**
- **Smartic Hybrid Power Systems**
- **Solar Solutions**
- **Power Backup Solutions**
- **Power Protection Solutions**
- **Building Management Systems (BMS) & Automation**
- **Renewable Energy Solutions**
- **Service Level Agreements (SLAs)**



Origami Studios

Origami Studios is a creative design agency specializing in graphic design, branding, and digital marketing solutions. They cater to a diverse clientele, offering tailored services that blend artistic creativity with strategic thinking. Their mission is to create impactful visual identities that resonate with target audiences.

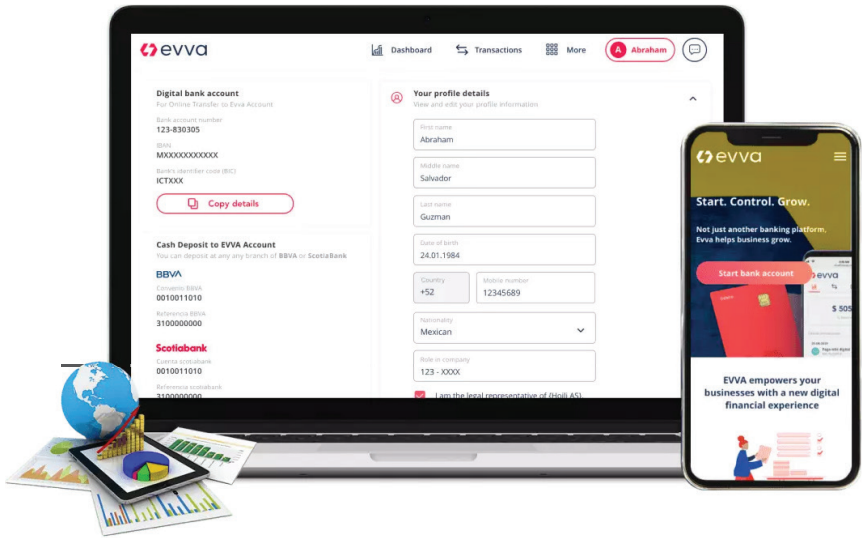
The studio has received multiple awards for excellence in design, including recognition from prestigious design competitions. Their work has been featured in various design publications, and they hold credentials from renowned design organizations, showcasing their commitment to quality and innovation.

With a portfolio of over 300 completed projects across various industries, Origami Studios maintains a client retention rate of 85%. Their team comprises experienced designers and strategists, enabling them to deliver high-quality design solutions efficiently.

Origami Studios offers comprehensive branding packages that encompass logo design, brand identity development, and marketing collateral creation, ensuring a cohesive visual presence for clients. Their digital marketing solutions include social media management, search engine optimization, and content creation, aimed at enhancing online visibility and engagement.

Primary Products

- **Branding Packages:** Comprehensive services that develop cohesive visual identities for clients.
- **Digital Marketing Solutions:** Strategies designed to enhance online visibility and engagement.

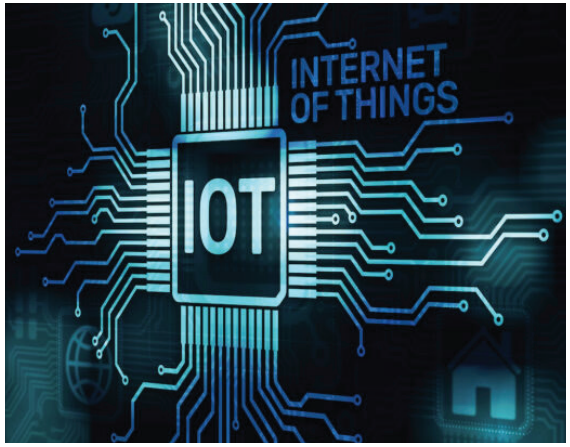


Relacom

Relacom Pakistan (Pvt) Ltd is a prominent telecommunications and IT solutions provider in Pakistan, specializing in network infrastructure development and managed IT services. Established in 2004, the company has been instrumental in enhancing connectivity and communication for businesses across the region.

Over the years, Relacom has forged strategic partnerships to expand its service offerings. Notably, they have collaborated with Arrow Tech Medical Systems (ATMS) to secure business in the medical and technology sectors. Additionally, Relacom serves as an authorized distributor for Whale Cloud Technologies, an Alibaba company, facilitating the distribution of ZStack and Whale Cloud Services throughout Pakistan. Their role as an authorized Veeam reseller further underscores their commitment to providing comprehensive IT solutions.

With over 15 years in the industry, Relacom has successfully completed more than 2,000 network projects for over 500 clients, ensuring 99.9% uptime in their solutions. Their expertise spans various sectors, including telecommunications, healthcare, and finance, making them a reliable choice for businesses seeking robust IT infrastructure and services.



Relacom's primary services include Network Infrastructure Solutions, encompassing the design, implementation, and maintenance of robust network systems tailored to client needs. Their Managed IT Services offer comprehensive support for IT operations, ensuring optimal performance and security. Through their partnership with Whale Cloud Technologies, they provide advanced cloud solutions, enabling businesses to leverage scalable and efficient cloud services. As an authorized Veeam reseller, Relacom offers reliable backup and disaster recovery solutions to safeguard critical business data.

Primary Products

- **Enterprise Solutions**
- **Healthcare Services**
- **Cloud & IoT Services**
- **Telecom Services**
- **HR BPO Services**
- **Facility Maintenance & Supply Chain Management**

Renzym

Renzym Private Limited is a technology company specializing in high-end, system-level engineering and software solutions. Their expertise encompasses the design and development of smartphone applications, wireless communication systems, and embedded systems. Renzym's mission is to provide innovative technological solutions that enhance operational efficiency across various industries.

Over the years, Renzym has collaborated with esteemed universities and research institutions, contributing significantly to advancements in technology. Their projects have been recognized in various industry publications, highlighting their commitment to innovation and excellence in engineering.

Renzym has successfully completed numerous projects, including the development of a real-time MIMO-OFDM testbed for wireless networks and a phased array radar system. Their solutions have been adopted by leading companies, resulting in enhanced operational capabilities and technological advancements.

Renzym's primary products include the SDR Communication Kit (SCK), which enables true software-defined radio development directly from classroom simulations through a USB interface.



The HF SDR Transceiver (HST) is a high-performance transceiver offering 48 KHz of bandwidth, designed for building high data rate communication systems. Additionally, the Renzym SDR Framework is a powerful digital modem software with multiple built-in waveforms and APIs for research and development.

Primary Products

- **SDR Communication Kit (SCK):** Enables true software-defined radio development directly from classroom simulations through a USB interface.
- **HF SDR Transceiver (HST):** A high-performance transceiver offering 48 KHz of bandwidth, designed for building high data rate communication systems.
- **Renzym SDR Framework:** A powerful digital modem software with multiple built-in waveforms and APIs for research and development.

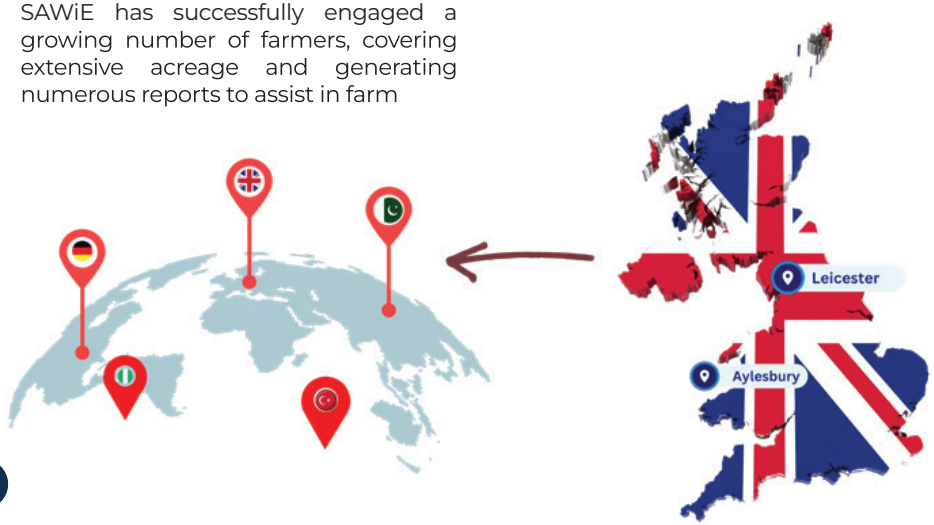
Sawie

SAWiE (Sustainable Agriculture, Water & Intelligent Ecosystem) is a technology-driven platform dedicated to providing data-driven solutions for farmers, enabling them to manage their farms independently. Leveraging remote sensing tools, including Earth observation and ground-based sensors, SAWiE offers real-time information on geophysical and biophysical parameters to enhance crop productivity and yield.

The platform has been acknowledged for its innovative approach to sustainable agriculture, collaborating with various supporters and advisors to advance its mission. SAWiE's commitment to promoting sustainable agronomy aligns with the United Nations' Sustainable Development Goals, impacting social, economic, and environmental aspects of farming communities.

SAWiE has successfully engaged a growing number of farmers, covering extensive acreage and generating numerous reports to assist in farm management. By utilizing real-time data, the platform aids in decision-making for crop management, including irrigation, nutrient application, and crop protection measures. SAWiE's tools have been instrumental in providing early crop yield estimates and identifying potential threats from pests and diseases, thereby supporting sustainable agriculture practices.

SAWiE's primary products include Crop Monitoring, which provides real-time crop monitoring and yield estimation data through high-resolution satellite imagery. The Crop Advisory tool offers a customized dashboard for farmers to manage farms, receive weather updates, and access real-time satellite data. Additionally, the Risk Management solution ensures smart decision-making based on temporal remotely sensed images and up-to-date surface parameters.



Smart Innovations

Smart Innovations is a technology company specializing in artificial intelligence (AI), Internet of Things (IoT), and data analytics solutions. Their mission is to develop advanced products that enhance business operations and facilitate digital transformation across various industries.

The company has been recognized for its technological innovations, receiving multiple awards in the tech industry. Smart Innovations has established collaborations with leading technology firms and holds certifications in AI and IoT technologies, reflecting its expertise and commitment to excellence.

Smart Innovations has successfully implemented over 100 AI-driven projects, achieving an average return on investment (ROI) of 150% for its clients. Their data analytics solutions provide real-time insights, enabling businesses to make informed decisions swiftly. The company's IoT devices are designed to seamlessly integrate with existing systems, enhancing operational efficiency and connectivity.





Their AI solutions encompass machine learning algorithms and predictive analytics tools that automate processes and provide actionable insights. The IoT devices offered by Smart Innovations include smart sensors and connected hardware that facilitate data collection and remote monitoring. Additionally, their data analytics services involve advanced data processing and visualization techniques to help businesses interpret complex datasets effectively.

Primary Products

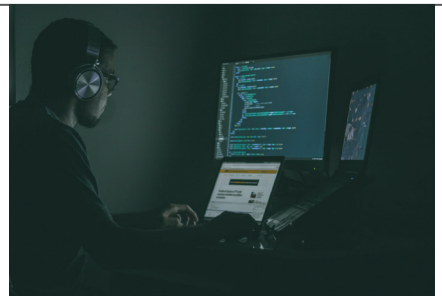
- **AI-Powered IoT Devices:** Combining AI and IoT to provide intelligent, connected solutions for various industries.
- **Real-Time Data Analytics Platform:** Offering businesses immediate insights for better decision-making.
- **Smart Sensors:** Devices designed to collect and transmit data efficiently, enhancing operational workflows.

SmartNeura

SmartNeura PVT LTD is an emerging technology company specializing in artificial intelligence (AI), Internet of Things (IoT), cloud computing, and blockchain solutions. Established in 2020, the company focuses on integrating these advanced technologies to drive digital transformation and enhance operational efficiency for businesses.

The company has been recognized for its pioneering work in AI and related fields, earning awards for innovative applications and contributions to technological development. Collaborations with research institutions further underscore SmartNeura's commitment to advancing the tech sector.

Since its inception, SmartNeura has launched over 30 AI-driven applications,



improving efficiency for more than 200 businesses. The company boasts a customer satisfaction rate of 92%, emphasizing its focus on user-friendly design and effective solutions.

SmartNeura's primary products include AI-driven applications that leverage machine learning algorithms to automate processes and provide actionable insights. Their machine learning solutions are designed to analyze complex data sets, enabling businesses to make informed decisions and optimize operations. Additionally, the company's IoT solutions facilitate seamless connectivity between devices, enhancing data collection and real-time monitoring capabilities.



Okasha Smart

Okasha Smart is an innovative company that focuses on designing and delivering digital solutions to simplify everyday tasks and improve operational efficiency. Specializing in smart devices, automation, and cloud-based systems, the company develops products that cater to various industries, with a strong emphasis on home automation and industrial smart technologies. Their offerings are built to create connected ecosystems that enhance the user experience while streamlining operations in both personal and professional settings.

Okasha Smart has gained recognition for its contributions to the IoT and smart home technology sectors. The company has participated in major regional technology expos and has received accolades for its advanced automation solutions. Industry recognition includes awards for innovation and invitations to speak at forums discussing the future of IoT and automation. These partnerships and engagements highlight the company's active role in advancing connected technologies.

With over 1,000 smart devices installed across residential and industrial environments, Okasha Smart has established itself as a trusted name in the field of IoT. Their solutions have been demonstrated to improve energy efficiency by up to 30%, significantly reducing operational costs and environmental impact. Furthermore, their automation systems deliver a 20% reduction in manual labor by enabling intelligent process automation. Okasha Smart prioritizes seamless system integration, ensuring that their devices and platforms are user-friendly and compatible with existing infrastructure.

The company's primary offerings include Smart Home Automation Systems and Industrial IoT Solutions. The Smart Home Automation System allows users to control lighting, security, climate, and entertainment through centralized platforms or mobile devices, providing convenience and enhanced security. The Industrial IoT Solutions are designed to monitor and optimize industrial processes, offering real-time insights into machine performance and production efficiency. Both products integrate cloud-based systems for data management, ensuring reliability and scalability.

Primary Products

- **Smart Home Automation System:** Provides centralized control of home functions such as lighting, security, and climate for enhanced comfort and safety.
- **Industrial IoT Solutions:** Enables real-time monitoring and optimization of industrial operations, improving productivity and energy efficiency

Devomech Solutions

Devomech Solutions is a technology and engineering solutions company specializing in Product Design, Prototyping, Software Development, and Internet of Things (IoT) solutions. The company has successfully completed more than 200 projects and holds ISO 9001:2015 and ISO 27001:2013 certifications, reflecting its commitment to quality and data security.



The company's core services include Product Design and Prototyping, where structured workflows and iterative testing result in scalable and production-ready designs. By focusing on manufacturability, Devomech ensures seamless transitions from concept to production, backed by comprehensive manufacturing documentation. In the area of Web, Mobile, and Desktop App Development, Devomech adopts a collaborative approach, delivering user-friendly applications that maintain compatibility with legacy systems. The company also offers advanced IoT solutions, integrating secure architectures, cloud technology, and data analytics to optimize business operations through Over-the-Air (OTA) updates.

Devomech Solutions has partnered with prominent clients across various industries, including Backaware, Mvs Pharma, Touch, Turbulent, RIDG, Zoomer, Meee, Fount, Launch Titans, Containit, CAD Cam, CBM, Rapid Release, and AZPreps. The company's commitment to innovation and client satisfaction has earned it recognition as a Top IoT Development Company by platforms such as DesignRush, Sortlist, Clutch, and Selected Firm.

The company's product portfolio showcases a range of innovative solutions, including the Meat Core Cooker, an insert designed to enhance meat tenderness by cooking from the inside; a Water Monitoring System that tracks TDS and flow rates in real time; and the Mobile Management App, which streamlines in-store device management. Additionally, the Fitness Tracking App leverages Bluetooth Low Energy for exercise monitoring, while the Coffee App offers a seamless ordering experience.

Primary Products

- **Meat Core Cooker**
- **Water Monitoring System**



Digitalux Pakistan

Digitalux is a leading technology solutions provider specializing in transforming concepts into intelligent, connected realities. With expertise spanning IoT, SaaS development, web applications, UI/UX design, artificial intelligence, and brand development, the company delivers outcome-driven services tailored to businesses of all scales. By seamlessly blending strategic vision with technical excellence, Digitalux empowers brands to establish a strong online presence and engineer sophisticated software solutions that drive growth and innovation.

With a proven track record of success, Digitalux has partnered with over 100 clients, delivering 220+ projects across diverse industries, including real estate, travel and tourism, eCommerce, fintech, FMCG, on-demand services, agritech, and telecommunications. The company's approach prioritizes client collaboration, ensuring that every solution is crafted with precision and aligned with business goals. Digitalux's commitment to excellence has earned it the trust of global brands, solidifying its reputation as a reliable technology partner.

Leveraging over 100 cutting-edge technologies, Digitalux develops scalable and secure cloud-based applications, AI-driven automation solutions, and immersive digital experiences. Its proficiency in platforms like Flutter, React Native, Next.js, OpenAI, and Adobe Suite enables the creation of intuitive, high-performance applications that enhance user engagement and business efficiency. The company's team of skilled professionals is dedicated to pushing boundaries, offering innovative solutions that redefine digital experiences.

Clients consistently praise Digitalux for its attention to detail, responsiveness, and professionalism. The company's ability to adapt to evolving technological landscapes ensures that businesses remain ahead of the curve, ready to embrace the future of digital transformation. With a passion for innovation and a commitment to delivering exceptional results, Digitalux continues to shape the technological landscape, helping businesses navigate the complexities of a connected world.

Zam Stack Technologies

ZamStack Technologies is a premier provider of cutting-edge web development, software solutions, and digital marketing services, dedicated to helping businesses harness the power of technology for sustained growth. With a commitment to innovation and excellence, the company specializes in delivering tailored solutions that enhance operational efficiency, improve digital presence, and drive measurable success.

As a trusted technology partner, ZamStack Technologies offers a comprehensive suite of services, including custom website development, software engineering, eCommerce solutions, and cloud-based application development. By leveraging the latest advancements in front-end and back-end technologies, the company ensures that businesses benefit from seamless functionality, scalable infrastructure, and user-friendly experiences. With expertise spanning industries such as healthcare, finance, eCommerce, education, and logistics, ZamStack Technologies creates industry-specific solutions designed to meet unique business challenges.

A results-driven approach underpins every project, ensuring that clients receive not just software but strategic digital assets that optimize workflow and boost productivity. The company's success stories speak to its ability to transform complex business processes through intuitive IT solutions, whether by streamlining inventory management for retail chains, implementing automated ticketing systems for IT service providers, or developing advanced hospital management systems for healthcare organizations.

Beyond software development, ZamStack Technologies excels in digital marketing, offering targeted strategies that enhance online visibility and generate meaningful customer engagement. From search engine optimization to social media management and pay-per-click advertising, the company's marketing expertise ensures that businesses achieve greater reach and sustained brand growth.

A highly skilled team of developers, designers, and strategists works closely with clients to understand their objectives, crafting bespoke solutions that align with business goals. Security, cross-platform compatibility, and cloud integration remain at the core of every product, ensuring reliability and scalability in an evolving digital landscape. By combining technical excellence with a client-centric approach, ZamStack Technologies continues to redefine the possibilities of digital transformation, empowering businesses to thrive in an increasingly connected world.

Rank Sol



RankSol is a leading name in digital innovation, specializing in transforming businesses through cutting-edge web and mobile app solutions. With a focus on web application development, mobile app solutions, graphic design, social media and digital marketing, e-commerce store design, and PPC services, RankSol empowers businesses to thrive in an ever-evolving technological landscape. The company prides itself on its team of forward-thinkers and innovators who are dedicated to shaping the future of digital business solutions.

At RankSol, the client is at the heart of every project. The company takes a client-centric approach, understanding the unique needs of each business and tailoring solutions to help them grow and succeed. The team's vast experience and commitment to excellence ensure that every project is executed with the highest level of expertise. Transparency, collaboration, and scalability are key pillars that define their work ethic, fostering strong partnerships with clients and supporting long-term business growth.

RankSol's core values, including innovation, integrity, collaboration, and excellence, guide the company's approach to every aspect of its work. The company thrives on exploring new possibilities and pushing boundaries, operating with honesty and accountability, and working closely with clients to achieve shared goals. Whether it's building a custom website, developing a mobile app, or implementing a digital marketing strategy, RankSol ensures that its solutions not only meet but exceed expectations.

The company's diverse service offerings include web development, mobile app development, digital marketing, UI/UX design, branding, and graphic design. RankSol's team is proficient in a wide range of technologies, including PHP frameworks, Bootstrap, React JS, Node JS, Vue.js, Swift, and Java, enabling them to handle projects of any complexity. With a track record of over 1,500 satisfied clients and a commitment to delivering top-quality service, RankSol is a trusted partner for businesses looking to enhance their digital presence and achieve lasting success.

Data Pilot

DataPilot is a comprehensive data product development and consulting services company dedicated to guiding businesses through their journey from raw data to informed decision-making. Leveraging a combination of advanced engineering capabilities and business acumen, DataPilot helps its partners unlock the full potential of their data assets to drive measurable value. By embracing an interdisciplinary approach, the team effectively addresses business challenges with a deep understanding of context and strategic impact. Their mission is rooted in empowering organizations with intelligent data solutions to enhance agility and performance in today's rapidly evolving markets.

In addition to their data consulting services, DataPilot is a recognized leader in the field of digital forensics. With over two decades of specialized experience, the company provides powerful forensic tools and solutions designed to rapidly acquire, analyze, and report on digital evidence from a wide array of devices—including cell phones, tablets, gaming systems, drones, smart TVs, and wearable technology. Their flagship product, the DPX, offers unmatched functionality in real-time evidence acquisition, supporting applications in law enforcement, corrections, campus security, private sector investigations, and more.



What sets DataPilot apart is its commitment to usability and innovation. Their forensic tools are designed to be intuitive and accessible, eliminating the complexity often found in other solutions. Monthly software updates ensure compatibility with the latest iOS, Android, and KaiOS versions, keeping users ahead of technological shifts. Built by a U.S.-based engineering team, their products combine reliability with agility, enabling investigators to efficiently extract actionable insights from even the most complex data sources.

DataPilot further enhances the user experience by offering complimentary training, making it possible for users to begin working with the tools immediately, while certified programs are available for those seeking deeper expertise. Their robust reporting features, including evidence tagging and streamlined analytics, enable swift progression from evidence collection to legal action. Trusted by hundreds of law enforcement agencies and eDiscovery professionals, DataPilot continues to redefine digital forensic investigation with smart, scalable, and effective solutions.

Zigron

Zigron is a forward-thinking technology company dedicated to shaping the future through intelligent, connected, and sustainable solutions. Since its inception in 2008, Zigron has been at the forefront of innovation, delivering customized software and engineering services that help businesses around the world navigate complex challenges with emerging technologies. With a diverse team of over 200 in-house engineers, the company has successfully completed more than 75 projects, consistently delivering excellence across various industries.

Specializing in IoT, AI, and engineering solutions, Zigron combines deep domain expertise with a commitment to innovation. Their work spans smart product development, connected solution design, intelligent systems engineering, and product readiness across sectors like smart home security, renewable energy, agriculture, and industrial automation. Leveraging AI and ML technologies, the team builds intelligent, scalable products that redefine user experience and operational efficiency.

Zigron's strength lies not only in its technical expertise but also in its ability to turn ideas into reality. From refining early-stage concepts to building robust digital platforms and offering ongoing support, the company acts as a one-stop solution for clients seeking



growth, agility, and long-term reliability. Its approach seamlessly integrates software and hardware, transforming abstract concepts into tangible innovations that serve both consumer needs and global sustainability goals.

With dedicated offices in Islamabad and Virginia, Zigron's multidisciplinary team includes experts in electrical, solar PV, structural, civil, geotechnical, and mechanical engineering. This diverse capability allows them to design and implement solutions that go beyond software—building smarter homes, energy systems, communities, and cities. Their work in smart energy is particularly notable, combining AWS IoT, embedded engineering, and AI to optimize energy usage and create greener infrastructures.

Zigron continues to push boundaries by developing secure, scalable, and efficient technologies that empower people and organizations. Whether it's a smart video doorbell, a renewable energy tracker, or an AI-powered analytics platform, Zigron is committed to building a future where technology serves both innovation and impact.



Bit IoT

Bit IoT is a trailblazer in the Internet of Things (IoT) space, delivering tailored solutions that transform businesses through advanced, secure, and scalable technologies. With over five years of experience, the company has successfully partnered with numerous businesses and connected tens of thousands of devices, helping clients reimagine their operations in the digital age. By combining deep technical expertise with strategic insight, Bit IoT develops intelligent systems that streamline processes, enhance efficiency, and enable real-time decision-making across a wide range of industries.

At its core, Bit IoT is driven by a mission to unlock the full potential of IoT technology through innovation, precision, and collaboration. From concept to deployment, the company offers end-to-end development and consultation services, backed by a team of experienced engineers and IoT specialists. Each solution is designed to be adaptable, future-ready, and aligned with the client's business goals. Security remains a foundational element in every project, with industry-best practices and customizable service-level agreements ensuring data integrity and operational resilience.

Bit IoT's service portfolio includes scalable IoT platform development, intelligent infrastructure monitoring, cloud-based and edge computing solutions, and comprehensive data analytics. With a strong emphasis on seamless device-to-cloud integration, their approach ensures real-time connectivity and performance optimization. Clients benefit from custom-designed LoRaWAN networks, DevOps-enabled rapid deployment, managed services, and professional training programs that empower teams with the skills needed to navigate the evolving IoT landscape.

By delivering impactful solutions in sectors such as smart utilities, smart cities, agriculture, environment, healthcare, and asset tracking, Bit IoT continues to serve as a trusted technology partner. Their reputation is built on the ability to connect complex systems effortlessly and scale operations efficiently, delivering tangible value at every step. As businesses increasingly embrace Industry 4.0, Bit IoT remains a driving force behind digital transformation, offering both the innovation and reliability needed to thrive in a connected world.

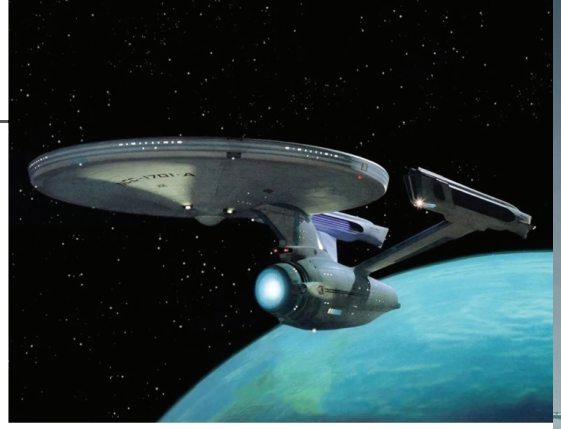
RedKabooter

RedKabooter is more than an IT company—it is a catalyst for transformation in the digital age. With a strong focus on innovation and excellence, the team at RedKabooter designs and delivers technology solutions that reshape the digital experience for businesses across industries. Each project begins with a deep understanding of the client's unique challenges, ensuring that every solution is precisely tailored to address specific needs while surpassing expectations.

What sets RedKabooter apart is its ability to fuse cutting-edge technologies with a human-centric mindset. Whether it's cloud computing, artificial intelligence, or emerging tech, the goal remains the same: to simplify complexity and create meaningful, intuitive digital experiences. The team doesn't just build efficient systems—they create accessible and powerful tools that genuinely enhance how people interact with technology.

At its core, RedKabooter is a collective of diverse and passionate innovators. Collaboration and creativity fuel its culture, where every team member contributes distinct insights that drive progress. The company believes in impact beyond deliverables—actively fostering ideas that shape industries and empower communities. With an unwavering commitment to growth and forward-thinking solutions, RedKabooter invites businesses and individuals alike to explore a future where technology is not just a tool but a transformative force.







NEUROBOTX

Neurobotx

Metapilot Academy is a pioneering institution shaping the future of aerospace, defense, space, and mobility through an industry-integrated MBA program backed by Boeing. With over 50 corporate partners including Airbus, NASA, BMW, Volvo, and Thales, the academy bridges the gap between cutting-edge education and real-world opportunities. As the global mobility and aerospace industry heads toward a projected $5 trillion valuation and anticipates over 2 million new jobs by 2030, Metapilot Academy positions its graduates at the forefront of this transformation, equipping them with the skills and connections needed to lead in this rapidly evolving space.

The program features a forward-looking curriculum designed and delivered by top industry leaders from Boeing, the US Air Force, Airbus, and other major OEMs. Students engage in immersive learning experiences across key verticals such as aerospace engineering, spatial computing, generative AI, XR, and intelligent mobility systems. Learning is flexible and self-paced, supported by exclusive masterclasses, an AI-powered coaching platform, and one-on-one mentoring with experienced professionals. Each student develops a capstone project, culminating in a high-visibility demo day attended by over 100 recruiters and investors from global aerospace and tech companies.



Graduates of Metapilot Academy benefit from lifetime access to a powerful global network of over 50,000 experts, executives, and alumni, alongside tailored introductions to over 200 leading corporations and investors. The program extends beyond education, offering perks such as VIP access to industry events, startup resources, and a strong career pathway into sectors including air mobility, robotics, smart defense systems, and space technologies.

At the executive level, Metapilot offers a highly selective track tailored to senior decision-makers. Participants in the executive program engage with top leaders in AI, aerospace, cybersecurity, and quantum technologies, gaining insights into emerging trends and building influence as thought leaders. This elite network provides boardroom access to OEM executives and offers opportunities for ambassadorship, sponsorship, and shaping the curriculum to align with corporate needs. The Boeing-backed Executive MBA credential further amplifies credibility and career growth within the top 1% of the aerospace and mobility industry.

Metapilot Academy is powered by Neurobotx, a Boeing-backed company at the forefront of neuromorphic XR simulation for next-gen mobility. Founded by a neuroscientist from a Nobel laureate lab and backed by a leadership team with successful exits and experience at Hyundai, NASA, and Boeing, Neurobotx developed Metapilot as a simulation platform supporting airtaxis, drones, EVs, and sustainable transport technologies. With more than 10 airtaxis live on the platform and over 200 in development, Metapilot not only serves as a launchpad for immersive training but also offers pathways for users to become licensed airtaxi pilots and shareholders in the future of mobility.

By combining advanced simulation, executive mentorship, and direct industry access, Metapilot Academy is redefining career trajectories in aerospace and mobility—empowering the next generation of innovators and leaders.

> *Neurobotx allows optimized co-training of human and AI pilots, aimed at training and robustifying AI pilots. I am happy to work with this company to unlock the ultimate AI copilot.*
> ***– Boeing AI Lead***

> *Metapilot Academy is where excellence meets innovation, training visionary leaders with the ambition to shape the future of aerospace, space, defense, and mobility.*
> ***– Fulbright Scholar AY 2022/23***



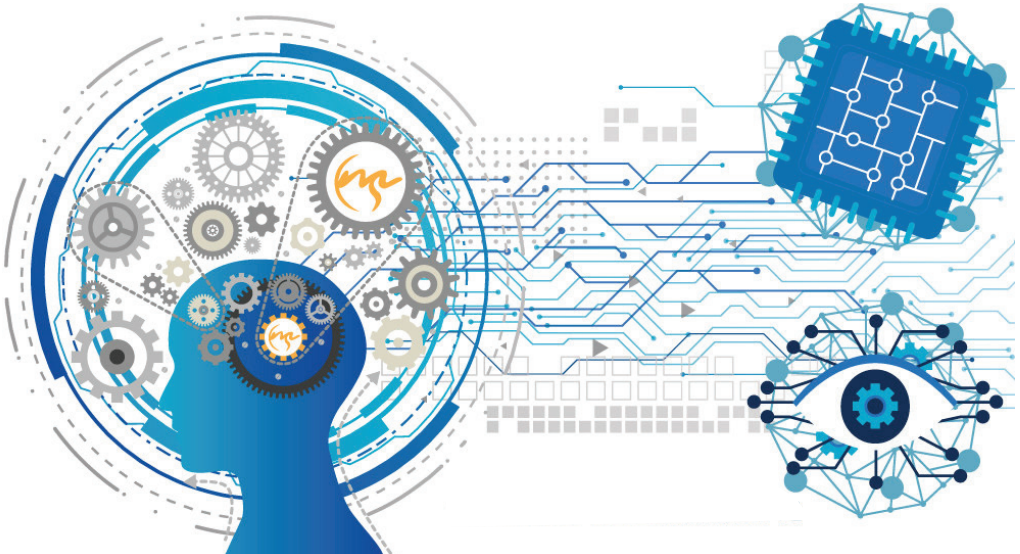
Vadion

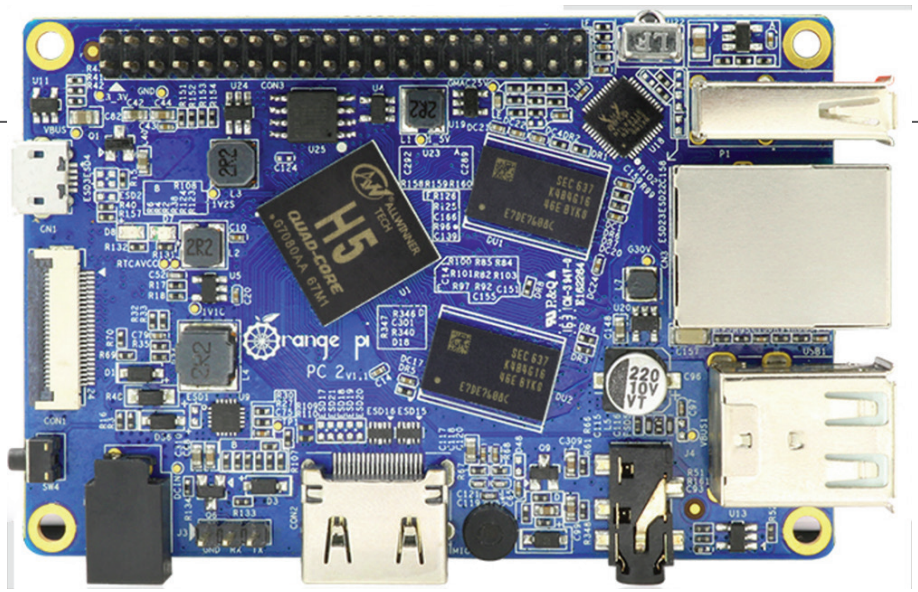
Vadion is a private limited company specializing in software development across a broad spectrum of technologies, with proven expertise in cloud and web services, mobile and wearable applications, embedded systems, and IoT. With a strong focus on innovation and quality, Vadion delivers comprehensive technology solutions tailored to the evolving needs of both start-ups and established enterprises.

The company's embedded software division offers end-to-end design and development services for advanced embedded systems, ensuring reliable and efficient performance across industries. Complementing this is Vadion's cloud and web capabilities, which empower applications with robust backend infrastructures, leveraging popular frameworks and platforms to ensure scalability and security. Their mobile development team creates intuitive.

Recognizing that user experience defines first impressions, Vadion also brings a sharp focus to UI/UX design, crafting digital experiences that are not only visually compelling but also functionally seamless. This design philosophy carries through to the company's work in emerging domains like Over-The-Top (OTT) media platforms, Video on Demand (VoD) systems, and IoT networks—developing connected ecosystems that allow devices and services to communicate intelligently and efficiently.

Vadion's deep technical expertise is further extended through its work on cloud platforms, including Amazon Web Services, Microsoft Azure, and private cloud deployments. These services enable reliable content





delivery and real-time connectivity, essential for today's digital products and services.

The company is uniquely positioned to serve a diverse client base. For start-ups, Vadion acts as a trusted technology partner, helping transform initial concepts into market-ready products by providing the development muscle and strategic insight required to compete in saturated markets. For more established businesses, Vadion facilitates digital transformation, streamlining operations and modernizing infrastructures to unlock new growth opportunities. Whether it's automating internal processes or expanding a physical store's reach through digital platforms, Vadion brings clarity and innovation to each challenge.

With clients including Amino, Quiske, and Nordicomm, Vadion has built a reputation for delivering dependable, forward-thinking solutions that drive progress. The company continues to be at the forefront of leveraging cutting-edge tools like AI and machine learning to automate processes and enhance performance, making it a key player in the rapidly evolving tech landscape.

> *Vadion has been one of main contractors of Booxmedia several years from the early stages of the company until the company was acquired. Vadion played instrumental role in designing and implementing Web API for Booxmedia's CloudTV Platform. Platform has been industry-proven by successful B2C service and various B2B deployments across the world. Vadion was demonstrating commitment, reliability, proactive attitude, and they were offering services in effective and professional manner over the busy times. I can recommend Vadion as a partner/contractor to work with.*
> *– Tomi Myllylä*

Metis Pvt International

Metis International (Pvt.) Ltd., originally founded in Islamabad and now extending its footprint to the UK, distinguishes itself in the consulting and technology space by shifting the focus where it matters most—on humans. Not systems. Not processes. Just people. Because let's face it, the best system in the world won't do you much good if your team greets it like an alien invasion. Metis believes that technology is only as good as its usability, and the real magic begins when solutions are designed with the end user in mind.

With a team whose members can lay claim to being among the earliest pilgrims in their respective domains (some probably remember when data lived on floppy disks), Metis blends deep sector expertise with state-of-the-art technological capability. Their approach is anything but off-the-shelf. Instead, they embed themselves in their client's operations—literally and metaphorically. In what they affectionately call Living Your Pain, Metis consultants with a finely tuned radar for emotional intelligence immerse themselves in your organizational challenges. Yes, they feel your spreadsheets and suffer your legacy systems, all so they can help your business rise like a data-driven phoenix.

Innovation, for Metis, is not a solo act—it's a jam session. Through their proprietary model of Collaborative Innovation™, they don't just solve problems for you, they co-create solutions with you. The result is not only deeply customized solutions, but ones your teams actually believe in (and maybe even enjoy using—stranger things have happened). Metis offers a suite of services crafted to turn complex challenges into competitive advantage. From Big Data and IoT to Data Warehousing and intelligent app migration, they've proven that even the most tangled legacy systems can be gracefully ushered into the 21st century cloud. Their mission is deceptively simple: enabling businesses to make decisions powered by data rather than gut feelings, guesswork, or the whims of whoever's been there longest.

Since its inception in 2014–15 with a modest crew of three and an ambitious dream, Metis has grown to a vibrant team of 68 (and counting), bringing on board talent with experience at global giants like Microsoft, Oracle, IBM, Teradata, and HP. Their success lies in the company's core belief: that the human element—attitude, adaptability, and a bit of wit—remains the defining edge in an increasingly digital world. In short, if you're looking for a partner who will not only future-proof your operations but also groan with you at your current dashboards before making them beautiful, Metis might just be the team to call. Also, they're hiring—because apparently, the universe always needs more sales engineers, project managers, and data scientists.

NanoByte Technologies



NanoByte Technologies, headquartered in Sacramento, California, is a leading provider of custom software development solutions, offering a powerful blend of technical expertise and a strong commitment to innovation. With over a decade of experience and a portfolio spanning 100+ successful projects across 15+ countries, the company empowers startups, SMEs, and enterprises with scalable, high-performance digital products. NanoByte specializes in web and mobile application development, enterprise software, UI/UX design, cloud computing, DevOps, IoT, artificial intelligence, and blockchain development, along with robust IT staff augmentation services.

Driven by a mission to simplify complexity and enhance user experience, NanoByte's approach begins with a deep understanding of each client's unique requirements. Through meticulous requirement analysis, collaborative idea generation, and iterative development, the team crafts tailor-made solutions that are both flexible and future-ready. Rigorous quality assurance and seamless delivery ensure every project meets the highest standards of performance and reliability.

What truly distinguishes NanoByte is its unwavering dedication to client satisfaction, round-the-clock customer support, and a proven track record of delivering transformative technology solutions. Whether optimizing internal operations through enterprise tools, enabling e-commerce scalability, or engineering next-generation AI and IoT systems, NanoByte remains a trusted technology partner for businesses aiming to grow, innovate, and lead in their industries.

> *I highly recommend NanoByte Technologies for their exceptional services, which have significantly increased my overall revenue.*
> ***– Fredrick Aderson, Vice President***

> *For the past 2 years, I've consistently praised NanoByte Technologies for their outstanding UI/UX design and SaaS solutions.*
> ***– Sam Warrillow, Senior Product Consultant***

Spectro Systems

Spectro Systems offers cutting-edge, end-to-end IoT solutions that empower businesses to seamlessly integrate and enhance their operations. Their technology delivers real-time data, robust analytics, and improved decision-making across diverse industries, from energy to logistics.
Spectro Systems is renowned for its industry-leading IoT solutions. With a global network of partners and a proven track record, it helps organizations achieve operational excellence and business transformation.

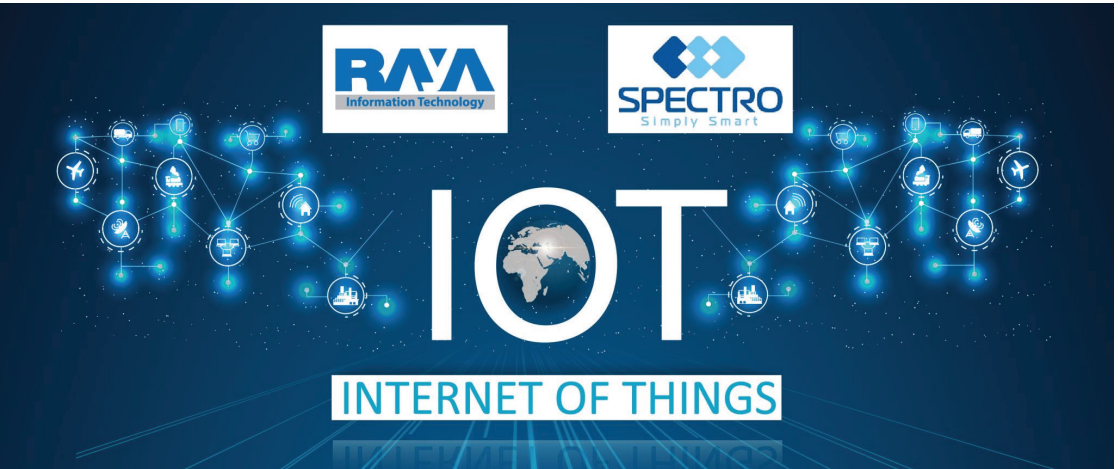
Spectro Systems offers a broad global reach, providing tailored IoT solutions to industries worldwide. Its advanced data analytics platform enables organizations to gain actionable insights in real time. With real-time monitoring capabilities, businesses can track operations seamlessly across various sectors, ensuring optimal performance. Their solutions are customizable to meet the specific needs of each business, allowing for greater efficiency and smarter decision-making.

Primary Products

- **SpectroCOLD**
- **SpectroDOZR**
- **SpectroPALM**
- **SpectroTANK**
- **SpectroPOWER**

> *Spectro Networks has an average rating of 3.8 out of 5, based on nine reviews. Clients have commended the company's reliable services and responsive customer support.*
> *– Trustburn*

> *An employee review of Spectro Networks on Glassdoor gives the company a rating of 3.0 out of 5. The review mentions exposure to various technologies but notes concerns about management consistency.*
> *– Glassdoor*



10 Pearls

10Pearls is a global digital transformation partner known for its cutting-edge solutions across software development, artificial intelligence (AI), cloud computing, and increasingly, the Internet of Things (IoT). With a strong foundation in agile product development and robust delivery models, 10Pearls empowers businesses to enhance their digital capabilities and accelerate innovation. Their approach is deeply rooted in collaboration, rapid iteration, and customer-centric design—allowing enterprises to stay ahead in competitive markets.

A core strength of 10Pearls lies in its IoT capabilities. They offer end-to-end IoT services that help businesses modernize infrastructure, improve operational efficiency, and unlock new revenue streams. Their IoT consulting services align emerging tech with strategic business goals, while their project management solutions ensure smooth execution and stakeholder alignment. On the development side, 10Pearls focuses on building secure, scalable IoT platforms that support seamless device communication, data exchange, and cloud integration. Their expertise in IoT analytics enables businesses to transform raw sensor data into actionable insights—fueling smarter decisions and real-time responsiveness.

10Pearls' impact spans across industries such as healthcare, finance, telecommunications, and retail. In healthcare, for instance, their IoT solutions have powered remote patient monitoring systems, enabling real-time data tracking through wearables and connected devices. This integration not only enhances patient care but also supports proactive interventions and better clinical outcomes. Their cross-industry experience positions them uniquely to tailor IoT strategies that are both practical and innovative.

The company's excellence is widely recognized. 10Pearls has been featured on the Inc. 5000 list of fastest-growing private companies for six consecutive years and included in the Financial Times list of America's Fastest Growing Companies. Industry leaders like Gartner have acknowledged their expertise in agile methodologies, DevOps, and emerging technologies like AI and machine learning. These accolades reflect the trust placed in 10Pearls by leading global brands. With over 900 professionals across four continents and more than 90 successful product launches, 10Pearls combines global talent with local insight. Their commitment to continuous innovation—especially in IoT—makes them not just a service provider but a true technology partner in digital transformation.

Primary Products

- **Product Development**
- **AI Solutions**
- **Digital Transformation**
- **Cloud & Security Solutions**
- **Software Engineering**

Jazz IoT Solutions

Jazz offers advanced Internet of Things (IoT) solutions designed to enhance business operations by unlocking new revenue streams, improving customer engagement, and boosting efficiency. Their comprehensive IoT technology provides immediate benefits, helping businesses scale through smarter connected solutions tailored to specific needs.

Jazz's IoT solutions are powered by Pakistan's largest and most reliable network, ensuring that businesses can trust their infrastructure. The company is recognized for its innovative approach to IoT, bringing cutting-edge technology to industries across the region.

Jazz offers the largest network coverage in Pakistan with a comprehensive IoT platform that ensures built-in security and privacy. Their solutions provide real-time insights and are scalable to meet business needs. With customizable IoT devices and managed solutions, businesses can enhance efficiency. Additionally, Jazz delivers strong technical support and offers PTA-compliant devices, ensuring seamless integration and compliance for its clients.



Primary Products

- **IoT Connectivity**
- **M2M Connectivity**
- **Managed Solutions**
- **IoT Equipment & Sensors**
- **Mobile Surveillance**
- **Building Automation**
- **Cold Chain Management**
- **IoT Devices**
- **Smart Retail**

> *In December 2020, Falcon-i, a leading fleet management company, collaborated with Jazz to provide IoT-powered fleet management solutions. This partnership enabled Jazz Business customers to connect to Jazz Biz View, a self-help portal offering real-time visibility, asset tracking, and customized analytics for vehicles and buildings.*
> *– Falcon-i Partnership*

> *In August 2020, Jazz partnered with Omnicomm, a global telemetry and fleet management solutions provider, to introduce 'Jazz Biz Fuelmatic.' This IoT-based fuel management solution allows businesses to monitor and analyze fuel consumption in real-time, aiming to reduce operational costs and environmental impact.*
> *– Omnicomm Collaboration*

TPL Trakker



TPL Trakker stands as Pakistan's foremost provider of telematics and IoT solutions, with a specialization in vehicle tracking, fleet management, and real-time GPS services. With over 24 years of industry leadership, the company was the first in the country to obtain a vehicle tracking license in 1999—cementing its position as a pioneer in Pakistan's GPS and IoT landscape. Today, TPL Trakker maintains an impressive 90% success rate in stolen vehicle recovery, making it the go-to name for security and reliability in both consumer and enterprise sectors.

What truly sets TPL Trakker apart is its focus on IoT-powered innovation. The company offers a wide portfolio of smart solutions designed to enhance efficiency, safety, and decision-making across industries. These include fuel monitoring systems, vehicle video surveillance, cold chain monitoring, water level sensors, waste management solutions, and even smart agriculture systems. These technologies provide clients with real-time visibility, predictive analytics, and automation that reduce manual effort and minimize operational costs.

One standout offering is TPL Trakker's Genset Monitoring solution, which has helped businesses reduce costs by up to 25% through intelligent energy management. Their IoT platform enables seamless integration of tracking devices, sensors, and cloud-based data analytics—turning raw data into actionable insights. This not only ensures smooth fleet and asset operations but also enables organizations to scale with confidence.

TPL Trakker has also formed strategic partnerships to expand its IoT ecosystem. In 2022, the company partnered with Telenor Pakistan to enhance IoT connectivity infrastructure, reinforcing its commitment to providing cutting-edge solutions at a national level. With a forward-looking approach and decades of experience, TPL Trakker continues to lead the transformation of traditional industries through intelligent, connected technologies.

Primary Products

- **Vehicle Trakking**
- **Fleet Management Solution**
- **Fuel Management Solution**
- **Water Level Monitoring**
- **Smart Energy Management**
- **Vehicle Video Surveillance**

> *In a video testimonial, Monis Rehman from Dukan.pk discusses how partnering with TPL Trakker has optimized operations for small business owners, enhancing efficiency and service delivery.*

A3Logics Inc.

A3Logics is a global leader in digital transformation, offering customized IT solutions that help businesses enhance their operations and achieve substantial growth. With over 21 years of experience and a proven track record of delivering over 500 successful projects worldwide, A3Logics has earned a reputation for its ability to drive efficiency through innovation. The company's expertise spans various advanced technologies, including artificial intelligence (AI), cloud computing, blockchain, and notably, the Internet of Things (IoT).

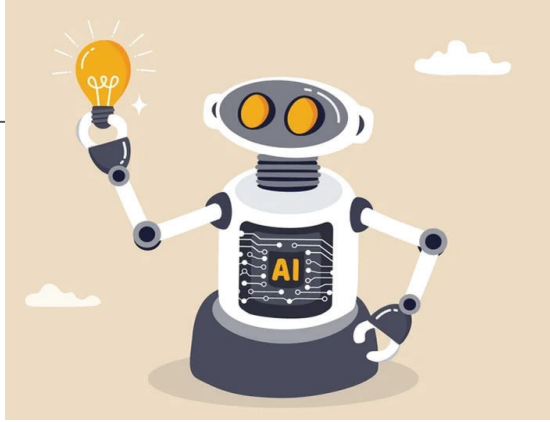
IoT has become a cornerstone of A3Logics' offerings, as they provide comprehensive IoT solutions that empower businesses to fully harness the potential of connected devices. These solutions are designed to improve operational efficiency through real-time data collection, analysis, and automation, enabling companies to make smarter, data-driven decisions. A3Logics' IoT services include custom app development, real-time monitoring, and system integration, ensuring businesses are equipped to manage and optimize their IoT ecosystems effectively.

With over 350 skilled tech experts on board, A3Logics delivers innovative solutions across industries such as healthcare, banking, and automotive. Their IoT applications have proven essential in sectors like smart healthcare, where connected devices enhance patient care, automotive, where IoT enables vehicle tracking and fleet management, and banking, where IoT enhances operational security and customer experiences. By integrating IoT into various aspects of business operations, A3Logics helps organizations stay ahead of the curve and streamline their processes, reducing costs and improving productivity. A3Logics' success in delivering cutting-edge IoT solutions speaks volumes about their commitment to driving technological advancement. Whether through the development of smart devices or the integration of IoT platforms, the company remains at the forefront of delivering scalable, secure, and efficient solutions that cater to the ever-evolving needs of their clients.

Primary Products

- **AI Development**
- **Blockchain Solutions**
- **IoT Development**
- **Cloud Services**
- **Data Engineering**
- **App Modernization**
- **Custom Software Solutions**
- **Business Intelligence**

> *A3Logics for their flexibility and strong communication, stating, Their distinct flexibility and their strong communication were the project's main assets.*
> ***– Zuben Mathews, Co-Founder & CEO of Brigit***



Cogniteq

Cogniteq is a leading global software development company, specializing in delivering custom solutions that empower businesses to turn their innovative ideas into successful products. With over 10 years of experience in the industry, Cogniteq has honed its expertise in providing a full spectrum of services, including mobile app development, web development, enterprise software solutions, and more recently, Internet of Things (IoT) solutions. The company focuses on integrating IoT technologies into its offerings, enabling businesses to optimize their operations, enhance connectivity, and make data-driven decisions.

Having successfully completed over 300 projects, Cogniteq has built a reputation for delivering high-quality, scalable solutions that meet the unique needs of various industries, including healthcare, finance, and e-commerce. Their IoT expertise has been instrumental in transforming industries by enabling real-time monitoring, automation, and enhanced data analytics. In healthcare, for example, Cogniteq has helped develop connected medical devices that improve patient care through real-time data transmission. In the finance and e-commerce sectors, the integration of IoT has enabled businesses to optimize logistics, improve customer experiences, and enhance operational efficiencies.

Cogniteq's tailored software development services, combined with their IoT solutions, provide businesses with the tools they need to stay ahead in a rapidly evolving digital landscape. Whether it's creating smart devices or building platforms that connect everything from sensors to cloud systems, Cogniteq is committed to bringing innovative IoT applications to life, driving the future of digital transformation.

Primary Products

- **Mobile App Development**
- **Web App Development**
- **Enterprise Software Development**
- **UX/UI Design**
- **Quality Assurance**
- **Dedicated Development Center**

> *I had a chance to ensure in Cogniteq professionalism and competence during a number of successfully delivered projects. I am happy that I found a solid and reliable partner for our apps development who clearly understands our needs. We liked Cogniteq's proactive and transparent approach conducted with a high level of quality of services.*
> ***– Christian Selmer, Medicon Applications***

Devsinc

Devsinc is a leading software and product development agency that empowers businesses to leverage cutting-edge technologies for digital transformation. With a rich portfolio of services spanning web and mobile development, AI, blockchain, cybersecurity, and more, Devsinc provides comprehensive solutions designed to enhance performance, security, and scalability. The company has successfully completed over 3,000 projects, serving 236+ active clients across more than 23 countries, and boasts over 15 years of experience in the industry.

A key strength of Devsinc lies in its expertise in delivering innovative IoT solutions that bridge the gap between devices and cloud infrastructure, enabling businesses to unlock the full potential of real-time data, automation, and smart systems. Whether it's creating IoT-enabled platforms for healthcare that monitor patient conditions remotely, or developing smart solutions for the e-commerce and banking sectors, Devsinc excels in helping companies harness the power of the Internet of Things (IoT) to optimize operations and enhance user experiences. Their ability to integrate IoT technologies with other advanced systems like AI and blockchain positions them as a leader in driving digital innovation.

The company's versatile tech stack, combined with its vast industry



experience, allows Devsinc to offer tailored solutions that meet the unique needs of various sectors, such as healthcare, e-commerce, and banking. With a focus on high performance, security, and quality, Devsinc continues to build a strong global presence, contributing to the digital success of businesses around the world.

Primary Products

- **Web Development**
- **Mobile App Development**
- **Custom Software Development**
- **AI & Data Analytics**
- **Cybersecurity**
- **Blockchain Solutions**
- **Cloud Solutions**
- **UI/UX Design**

> *Devsinc developed a mobile app and custom software for our healthcare company. The team enhanced the app's UX and performance, resulting in positive reviews and increased user engagement. They managed the project effectively, delivered on time, and communicated clearly.*
> *– CTO, Healthcare Solution*

DigyCorp

DigyCorp is at the forefront of digital transformation, specializing in delivering innovative solutions that leverage cutting-edge technologies like Digital Twin, AI-driven platforms, and Internet of Things (IoT) to optimize operational efficiency, drive sustainability, and enable real-time decision-making across various industries. By seamlessly integrating IoT into its solutions, DigyCorp enhances connectivity and data flow, empowering businesses to gain deeper insights into their operations and improve performance across the board.

The company works with high-profile clients in critical sectors such as ecology, transportation, aerospace, and energy, providing tailored solutions that not only improve operational efficiency but also support environmental sustainability goals. Through IoT-enabled platforms, DigyCorp helps organizations achieve predictive maintenance, optimize





resources, and make data-driven decisions in real time. This allows industries to monitor systems remotely, track assets dynamically, and ensure the continuous flow of accurate information across operations.

With a clear focus on IoT, DigyCorp's platforms provide scalable, intelligent solutions that enhance decision-making and support sustainable, environmentally friendly practices. Whether it's through the deployment of smart sensors in transportation systems, monitoring environmental changes in ecology, or optimizing energy consumption in the aerospace sector, DigyCorp is driving smarter, more sustainable progress by enabling industries to take full advantage of connected, real-time data. Their expertise in IoT and advanced technologies positions them as a leader in creating the next generation of intelligent, sustainable systems.

Primary Products

- **DC Digital Twin**
- **DC Consultancy**
- **DC Nexus AI Platform**

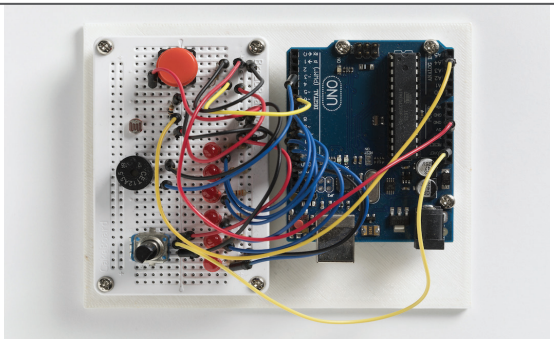
bitcraft

BitCraftology

Bit Craftology is a leading software product development and IT consulting firm based in Pakistan, renowned for its expertise in creating scalable and user-centric digital solutions. As a strategic development partner, Bit Craftology guides clients through every phase of the software product development lifecycle, delivering innovative and performance-driven solutions. Their expertise spans IoT, software development, UI/UX, and quality assurance (QA), ensuring that every project not only meets but exceeds client expectations.

While Bit Craftology does not list formal awards, their solid reputation has been built through consistent client trust and high-quality work, particularly on global freelancing platforms like Fiverr. Their ability to deliver outstanding solutions in IoT, as well as other domains, has positioned them as a reliable partner for businesses seeking digital transformation. Whether it's developing IoT-enabled platforms for remote monitoring or creating smart applications that integrate seamlessly with connected devices, Bit Craftology excels in crafting solutions that enhance operational efficiency and provide real-time insights.

Their success in building a wide range of platforms—from telecom fraud



detection systems to flash call verification technologies demonstrates their commitment to leveraging IoT and other advanced technologies to drive innovation. Bit Craftology's client-centric approach, collaborative communication, and cross-functional expertise ensure that they deliver solutions that are not only scalable but also future-proof. By integrating IoT technologies into their solutions, Bit Craftology continues to help businesses optimize operations, improve decision-making, and stay ahead in an increasingly connected world.

Primary Products

- **Web Development**
- **Mobile App Development**
- **Custom Software Development**
- **UI/UX Design**
- **QA & Testing**
- **Creative Solutions**

> *Yasir is an absolute professional. I took a leap of faith to trust him with a (not-so-small) project, and he handled it like a champ. I would absolutely recommend and do business with him over and over again. Thank you!*
> *– Michael Mavashev*

ATHENA AI

AthenaAI

Athena AI is a cutting-edge defense-focused AI company that specializes in developing advanced vision-based systems powered by computer vision and integrated Internet of Things (IoT) technologies. Their innovative solutions combine real-time decision support, intuitive UI overlays, and IoT connectivity to provide tactical AI capabilities for military and defense applications. By incorporating IoT sensors and connected devices, Athena AI enables real-time data collection and processing, improving operational efficiency and enhancing situational awareness on the battlefield.

Trusted by leading defense organizations in countries such as the USA, UK, Australia, Netherlands, and Canada, Athena AI is recognized for its ability to deliver cutting-edge, AI-driven solutions that provide a tactical edge in military operations. The company's



IoT-enabled systems integrate satellite imagery analysis, pose detection, and thermal vision, all while ensuring compliance with international legal and ethical standards for combat. Athena AI's systems use hierarchical neural networks to support high-speed, high-accuracy decision-making, and their IoT-enabled capabilities allow for seamless communication between devices, improving both situational awareness and operational responsiveness.

By leveraging IoT technologies, Athena AI brings a new level of intelligence to defense systems, enabling real-time monitoring, asset tracking, and more precise decision-making. The company's solutions are not only about tactical AI but also about creating intelligent networks that connect data sources, sensors, and platforms for greater strategic insight. Athena AI's ability to blend IoT, AI, and vision-based systems offers unparalleled operational support for military and defense organizations, ensuring they remain ahead in the rapidly evolving landscape of modern warfare.

Primary Products

- **Geospatial Intelligence**
- **Thermal Imaging & Vision**
- **AI-Driven Decision Support**
- **Pose Detection Systems**
- **Custom Tactical Solutions**
- **Athena Academy (Training Platform)**

KALHOST
Domain & Hosting

Kalhost Web Hosting In Pakistan

Kalhost is a Pakistan-based web hosting and domain registration company offering reliable Linux and Windows hosting solutions. With features like unlimited bandwidth, SSD storage, cPanel, free SSL, and 99.9% uptime, it serves individuals and businesses globally.

Recognized as a top web hosting leader since 2008, Kalhost is known for its quality service, dedicated support, and technical excellence, which have earned it credibility and trust over the years.

With over a decade of experience, Kalhost delivers 24/7/365 customer support, 30-day money-back guarantees, and customizable hosting plans. Its wide range of features and robust uptime make it a trusted provider for thousands of users.





Primary Products

- **Website Hosting**
- **VPS Hosting**
- **Unlimited Hosting**
- **SSL Certificates**
- **Domain Registration**
- **Domain Transfer**
- **Website Design**
- **E-commerce Website Design**
- **WordPress Website Design**
- **Website Maintenance**
- **Web Development**
- **CRM & Lead Generation**

I really say that Kalhost support 24/7, Perfect. I needed to transfer my website to a different folder and create a subdomain. Even though I had no idea how to do it, the customer service desk did everything for me and everything works perfectly!
– Hammad Qazi

They give more than I ask for their amazing low prices. Tech support was on the ball, the site was up as far as I could tell. I highly recommend Kalhost, best web hosting I ever use.
– Qasim Malik

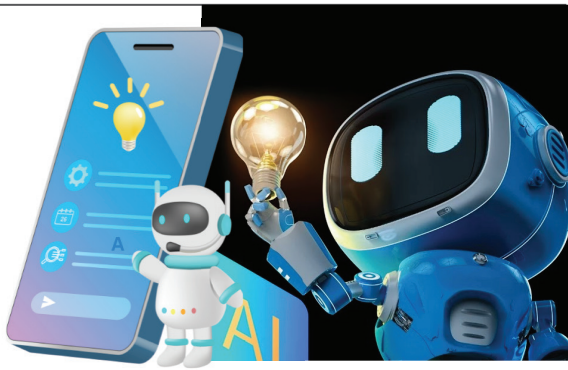
Softifyme

Softifyme

Softifyme is a cutting-edge technology solutions company specializing in Internet of Things (IoT) development, alongside digital transformation and business automation services. From smart device integration to real-time data solutions, they help businesses leverage the power of IoT to streamline operations, enhance efficiency, and drive innovation. Their services range from custom software development and cloud-based solutions to digital marketing and resource outsourcing—tailored to meet the specific needs of modern, tech-forward enterprises.

Though not heavily publicized, Softifyme has built a strong reputation in the IoT and software development space through consistent client satisfaction and successful project delivery. Their commitment to using the latest technologies and best industry practices has earned them trust across various industries. Known for their responsive 24/7 support and an expert team of engineers and developers, Softifyme is regarded as a reliable partner for businesses looking to adopt IoT-driven innovations.

Softifyme boasts a diverse portfolio that includes numerous IoT implementations—ranging from smart home solutions to industrial automation. They have served over 100 clients globally, launched 50+



IoT-integrated applications, and helped businesses reduce operational costs by up to 30% through real-time monitoring and automation. With a future-oriented mindset and an agile development approach, Softifyme stands out as a go-to tech partner for companies aiming to stay ahead in the connected world.

Primary Products

- **Requirement-Driven Development:** Tailored software solutions that ensure functionality, scalability, and efficiency. Softifyme
- **Business Digitalization:** AI-driven automation, cloud solutions, and digital process optimization to streamline operations.
- **Social Media & Digital Marketing:** Data-driven campaigns, targeted advertisements, and engaging content creation to boost online presence.
- **Dedicated Resource Outsourcing:** Provision of skilled professionals to augment productivity and drive business growth.
- **Mobile App Development:** Full-cycle application design, integration, and management services for both consumer-oriented apps and enterprise-class solutions.

Car Chabi

Car Chabi is an innovative IoT-based solution that transforms your smartphone into a comprehensive car key, offering functionalities such as locking/unlocking, engine start/stop, and climate control activation via Bluetooth. The system also features proximity-based automation, enabling automatic locking and unlocking as you approach or leave your vehicle, and allows for digital key sharing with others.

Founded by electrical engineers Hammad Yasir and Ali Rashid, Car Chabi has garnered significant recognition since its inception. The startup received $150,000 in seed funding from Treet Corporation Ltd in 2017, marking a milestone as the first hardware-based Pakistani startup to secure such investment. Additionally, Car Chabi was nominated as the best startup in the 2nd Throwathon at LUMS and ranked among the top 12 startups at TIE Lahore.

Demonstrating robust growth, Car Chabi sold approximately 1,000 units within its first year, generating around $30,000 in revenue. The device is compatible with 99% of cars on the market and has been installed in over 3,000 vehicles internationally, providing users with enhanced vehicle security and convenience through smartphone integration.

Primary Products

- **MoboKey One:** Features include lock/unlock, proximity lock/unlock, trunk unlock, auto security, starter/key deactivation, and a long-range of up to 200 feet.
- **MoboKey Pro:** Offers all features of MoboKey One, plus remote app start/stop, proximity start/stop activation, and a longer range of up to 300 feet. Immobilizer bypass module is available with technicians if required.



Mevris

Mevris is Orient's proprietary mobile application designed to enhance the functionality of Orient Air-Conditioners by integrating Internet of Things (IoT) technology, effectively transforming traditional appliances into smart devices. Developed to provide users with comprehensive control and monitoring capabilities, Mevris offers features such as integration with Facebook Messenger and WhatsApp for AC control, hands-free operation via Google Assistant, customizable settings based on specific location types, and real-time status updates to confirm whether appliances are on or off.

While specific awards and accolades are not detailed, Mevris demonstrates a strong commitment to innovation by incorporating advanced technologies like Artificial Intelligence to optimize user comfort and energy efficiency. The application offers various operational modes, including Max BTU, Differential, Balanced, Round Robin, and Incremental, each designed to cater to different user preferences for cooling speed and energy savings. Additionally, features like Auto Cleaning of critical components and predictive analytics for appliance usage reflect Mevris's dedication to enhancing user satisfaction and prolonging appliance lifespan.

Mevris's unique selling points include its extensive control capabilities, such as turning the AC on or off, adjusting fan speed, modifying thermostat settings, selecting heating or cooling modes, scheduling timers, and adjusting swing positions. The application also provides real-time metering information, historical data trends, and diagnostic features to predict and prevent potential issues, ensuring optimal performance and extending the lifespan of air-conditioning units. By leveraging AI, Mevris aims to deliver significant energy savings, offering users both enhanced comfort and cost-efficiency.

Primary Products

- **Control:** Turn AC on/off, adjust fan speed, set thermostat settings, select heat/cool modes.
- **Modes:** Max BTU, Differential, Balanced, Round Robin, Incremental.
- **Hands-Free:** Integration with Google Assistant for voice commands.
- **Smart Integration:** Control via Facebook Messenger and WhatsApp.
- **Energy Efficiency:** AI-driven features for energy savings.
- **Auto-Cleaning:** Auto cleaning of critical components.
- **Diagnostics:** Real-time metering, historical trends, and predictive analytics for appliance issues.
- **Customization:** Customizable location-based settings.

Avrio Global

Avrio Global is a full-service digital agency specializing in a wide array of IT services, dedicated to transforming business visions into digital realities. With over five years of experience, they offer services ranging from mobile and web application development, AI/ML solutions, SEO and content writing, digital marketing, website design, IT consulting, blockchain development, IoT development, and software testing. Their mission is to enhance business performance by providing exceptional customer satisfaction and leveraging the latest technological innovations to fuel growth and expansion for businesses.

Avrio Global has earned recognition through consistent positive feedback from clients, including notable businesses like BankIslami Pakistan Limited and Medics Laboratories. Their dedication to innovation and high-quality services has also been reflected in strategic partnerships and successful projects. In 2024, Avrio expanded its portfolio by acquiring HUMBL Financial, enabling them to offer a wide range of financial products and services in global markets, which is a significant milestone in their business development.

Avrio Global's impact is evident in their impressive portfolio and global reach. They have consistently delivered outstanding results, with clients across multiple countries. Their services are particularly appreciated for the innovative approach and the seamless integration of technology solutions across various sectors. The company has helped numerous businesses in their digital transformation, and their portfolio includes successful collaborations with enterprises like BankIslami Pakistan Limited. Their extensive service offerings, including blockchain development, digital commerce, and IT outsourcing, position Avrio as a one-stop solution provider for businesses aiming to achieve their digital goals.

Primary Products

- **IoT Development –** Smart, connected systems for automation and remote monitoring.
- **Mobile App Development –** Apps to control and monitor IoT devices.
- **Web App Development –** Dashboards for managing IoT data.
- **AI/ML Solutions –** Predictive analytics for IoT applications.
- **Blockchain Development –** Secure data exchange in IoT networks.
- **Software Testing –** QA for IoT devices and integrations.
- **Emerging Tech –** Edge computing and advanced IoT infrastructure.
- **Digital Transformation –** Upgrading businesses with smart IoT solutions.
- **IT Consulting –** Strategic planning for IoT integration.
- **IT Outsourcing –** Full-cycle IoT development teams



Txtsol

TxtSol specializes in delivering bespoke software solutions tailored for the Internet of Things (IoT) ecosystem. With extensive experience in the IoT domain, their continuous research ensures that their solutions evolve to keep clients ahead of the competition.

Their flagship product, OneB2B, is a cloud-based enterprise IoT device and SIM management platform. Designed specifically for IoT companies and businesses with B2B processes, OneB2B enables global device connectivity, service control, deployment management, and operational efficiency. Features include customer onboarding, fine-grained security, flexible inventory management, and streamlined customer support.

TxtSol's commitment to quality is evident in their adherence to world-class software practices, including advanced development methodologies, engineering practices, and QA standards. This approach enhances their team's capabilities and ensures high customer satisfaction.

Primary Products

- **OneB2B:** A cloud-based enterprise IoT device and SIM management platform, enabling businesses to connect devices globally, control services, and enhance operational efficiency.
- **OneLABz:** A comprehensive web-based Laboratory Information Management System (LIMS) designed to streamline laboratory operations and data management.
- **OneHospitalz:** A hospital management system aimed at optimizing hospital workflows, patient management, and administrative tasks.
- **OneInstitutes:** An educational institute management system facilitating the administration of academic institutions, including student records, scheduling, and communication.
- **BizAccounts:** An accounting software solution tailored for businesses to manage financial transactions, invoicing, and reporting.
- **BizTransports:** A transportation management system designed to oversee fleet operations, logistics, and route planning.

Utor Solutions

UtoR Digital, established in 2019 and headquartered in Dubai, is a premier IT services and consulting firm dedicated to delivering cost-effective, next-generation technology solutions. Specializing in Minimum Viable Product (MVP) development and tailored tech solutions, UtoR Digital caters primarily to early-stage startups. Their comprehensive service portfolio encompasses software solutions, Customer Relationship Management (CRM), Enterprise Resource Planning (ERP), eCommerce platforms, mobile applications, cloud platform migration, and notably, Internet of Things (IoT) development. Emphasizing agile and lean methodologies, UtoR Digital ensures rapid delivery of high-quality, user-centric solutions that align with clients' business objectives.

While specific awards and accolades are not publicly detailed, UtoR Digital's credentials are reflected in their successful collaborations and the trust they've garnered from a diverse clientele. Their expertise in IoT development has positioned them as a valuable partner for startups aiming to integrate smart, connected solutions into their operations. The company's commitment to quality and innovation is further evidenced by their team of professionals who provide continuous support and ensure that all systems undergo rigorous quality and usability testing.

Operating with a team size of 11-50 employees, UtoR Digital has established a global presence with offices in Dubai, Rawalpindi, and Nottingham. Their unique selling proposition lies in their ability to handle all aspects of solution delivery, particularly in the IoT domain, offering end-to-end services from conceptualization to deployment. By focusing on customer needs and satisfaction, UtoR Digital has successfully delivered solutions that bridge the gap between user stories and reality, enabling startups to leverage IoT technologies effectively.





Primary Products

- **Internet of Things (IoT) Development:** Providing IoT consulting and implementation services, UtoR Digital specializes in integrating smart, connected solutions for both small and large enterprises. utordigital.com
- **Software Solutions:** Delivering custom-designed, scalable, and optimized software projects tailored to client preferences. utordigital.com
- **Web Design & Development:** Leveraging over 15 years of industry experience to create engaging and functional websites. utordigital.com
- **UX Design & Consultancy:** Focusing on humanistic and realistic user experiences, emphasizing usability and accessibility. utordigital.com
- **Technology Consultancy:** Providing strategic guidance to align technology solutions with business goals. utordigital.com
- **Cloud Platform & Migration:** Assisting businesses in transitioning to cloud platforms for enhanced efficiency and optimization. utordigital.com
- **Software Quality Assurance:** Ensuring high-quality software through rigorous testing and quality control measures.
- **Enterprise Solutions:** Offering a range of services from installation and integration to deployment and support for enterprise systems. utordigital.com
- **IT System and Application Integration Services:** Enhancing business operations through efficient system and application integrations.
- **IT Resource Sharing:** Providing flexible IT resource hiring and management solutions tailored for startups and established businesses. utordigital.com
- **IT Strategy and Consulting:** Offering expert advice to optimize IT strategies in alignment with business objectives.
- **Application Services:** Developing customized applications to drive innovation and enhance user experiences.
- **Business Intelligence Consulting:** Providing data-driven insights to inform decision-making and optimize performance.
- **Cybersecurity:** Implementing robust security measures to protect businesses against cyber threats.
- **Data and Artificial Intelligence:** Leveraging data and AI to unlock valuable insights and drive business innovation.
- **Business Process Outsourcing:** Streamlining operations through efficient outsourcing solutions, including call center support.



Teresol

Teresol, established in 2012, is a premier ISO 9001 & ISO 20000 certified R&D company specializing in open architecture computing and electronic systems tailored for aerospace, defense, and industrial applications. With over a decade of experience and more than five million man-hours dedicated to research and development, Teresol excels in delivering innovative, modular solutions based on open standards. Their product portfolio encompasses Single Board Computers (SBCs), video and graphics processing cards, mission-ready systems, and automotive systems. Additionally, they offer comprehensive software services, including enterprise-level architecture, AI/ML solutions, and DSP algorithm implementation. Teresol's commitment to rugged reliability and outstanding price/performance positions them as a trusted partner in critical sectors.

Teresol's dedication to innovation and excellence has garnered recognition from esteemed organizations. Notably, the Japan International Cooperation Agency (JICA) included Teresol in its list of featured ICT companies, acknowledging Pakistan as an emerging ICT powerhouse. This inclusion underscores Teresol's significant contributions to the technology sector. Furthermore, the Pakistan Aerospace Council (PAeC) commended Teresol for fostering academia-industry linkages by hosting students from the Military College of Signals – NUST Islamabad Campus. This initiative provided students with invaluable practical exposure and insights into the industry's research and development processes, reflecting Teresol's commitment to nurturing future tech leaders.

With a robust team of over 250 software and electronics engineers, including more than 50 professionals holding master's and Ph.D. degrees from elite institutions worldwide, Teresol boasts a diverse and competent talent pool. The company's international footprint spans five countries: Pakistan, Singapore, Dubai, France, and the USA, enabling them to serve a global clientele effectively. Teresol's unique selling points lie in their ability to provide customized embedded solutions, form-fit functional systems, and enterprise-scale software services. Their expertise in AI, machine learning, and big data algorithms further distinguishes them in the market, ensuring clients receive cutting-edge solutions tailored to their specific needs.

Primary Products

- **Single Board Computers (SBCs):** Featuring various configurations such as PowerPC and ARM architectures, these SBCs are available in form factors like Qseven, SMARC, SODIMM, and HPC. They are built in collaboration with leading silicon companies to ensure high performance and reliability.
- **Mission Ready Systems:** Providing rugged, form-fit, and functional Line Replaceable Units (LRUs) including Display Computers, Control Computers, and Digital Video and Mission Data Recorders, designed to meet the stringent requirements of aerospace and defense industries.
- **I/O and Bus Interface Cards:** Developing various Input/Output and MUX BUS Interface modules and adaptation cards that play critical roles in the functionality of LRUs in mission-ready systems.
- **Automotive Systems:** Offering solutions like Vehicle Infotainment Systems and Vehicle Tracking Systems, including the 'TERETRACK' GPS/GSM-based fleet tracking and management solution, integrated with web-based information management systems.
- **Software Solutions:** Providing custom software development services, including enterprise-level architecture, AI/Machine Learning solutions, and DSP algorithm implementation, tailored to fit clients' enterprise software ecosystems.
- **Embedded Design Services:** Supporting the entire electronic hardware design process from concept to deployment, including schematic design, PCB design, prototyping, and production support.
- **FPGA IP Core Development:** Offering expertise in FPGA hardware and software design to provide complete solutions across diverse industries.
- **Middleware Services:** Specializing in the design and implementation of Hardware Abstraction Layers (HAL), custom APIs for peripherals, and customization of display, media, storage, overlay, and HMI frameworks.
- **Manufacturing Services:** Delivering end-to-end manufacturing solutions, ensuring high-quality production standards for electronic systems and components.
- **HR Management Solutions:** Providing comprehensive human resource management tools designed to streamline HR processes within organizations.



TALK TO US



Do you run a business in the Internet of Things industry?

Get in touch with your details now at

mkt@pseb.org.pk

and we'll take it from there.

Also email us for any comments, suggestions or errors in this whitepaper.

For more information on registered companies, please visit

https://techdestination.com

About this Industry Roundup

Pakistan Software Export Board developed this paper by hiring services of independent consulting firms to prepare this roundup on Pakistan's internet of things sector. The paper focuses on Pakistan-based companies in this vertical and apprises the reader of the expertise available in this domain.

Disclaimer

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