

Gadgeon is a new-gen technology consultancy and engineering services company enabling customer's digital journey. Gadgeon is dedicated to building solid software systems that creates business value for enterprises. Our services include Product engineering, IoT Engineering, Embedded systems – hardware & Firmware, Enterprise application – integration & modernization, Full stack development, cloud & Mobile app development, data analytics with AI & ML, testing & automation, and Professional services. Gadgeon enables our customers to fully focus on high impact business transformation initiatives while the extended team from Gadgeon takes care of all engineering and operational activities.

Gadgeon in the last 10+ years partnered with over 70 customers with successful deployment of more than 170 projects across USA, Europe, and APAC. Over the years, we have been identified for quality and engineering excellence. We serve Enterprises, ISVs, Product companies, and fast growing startups across Digital Healthcare, Connected factories, Retail & E-Commerce, Communication, and Home & Building Automation domains.

Gadgeon is committed to deliver excellence in solution development and design services. We focus on:

On time delivery of Innovative solutions and services within Budget and Agility by meeting all customer and regulatory requirements

Empowering employees to deliver quality solutions and services with passion

Continuous improvement in solution development and processes

Gadgeon Lifestyle a 100% subsidiary of Gadgeon Smart Systems Private Limited, are specialists in the custom design, supply and installation of audio-visual, home automation and integrated electronic systems for the home. Home Automation services provides you access to control electronic devices in your home or office or any other buildings from a mobile or any internet accessible device from anywhere in the world.

Gadgeon Medical Systems Pvt. Ltd a fully owned subsidiary of Gadgeon Smart Systems Private Limited, with a vision to be the leader in engineering a healthier future where digitally enabled, personalized, predictive, preventive, and participatory healthcare helps people live healthier and longer lives. The company's mission is to focus on commercializing innovative technologies to create clinical outcomes for the patients.

Our flagship healthcare platform – WebCardio is a connected care platform that is already transforming the way Ambulatory Cardiac monitoring is delivered and has become the new normal among the leading cardiologists and neurologists in hospitals across India and abroad.

Our Product engineering services use hardware, embedded, software, and IT solutions for faster design, development, and launching of products. Today, lack of the right domain experience or technical expertise is not a barrier to building profitable products. Instead of

relying on home grown talent and resources, which requires high investment in time and money, customers can leverage the expertise of product engineering service (PES) from Gadgeon.

Mission- Create business value by making sense from connected world

Quality Policy

Gadgeon is committed to deliver excellence in solution development and design services. We focus on:

On time delivery of Innovative solutions and services within Budget and Agility by meeting all customer and regulatory requirements

Empowering employees to deliver quality solutions and services with passion

Continuous improvement in solution development and processes

Why Gadgeon?

Gadgeon is a digital technology service provider enabling customer's digital journey with solutions using new-gen technologies. Our customers are able to focus on high impact business scale up initiatives while the team from Gadgeon taking care of all engineering and operational activities.

Core engineering company with a culture of constant innovation with outstanding track record. Commitment to quality with ISO 9001:2015 and ISO 13485:2016 certifications. Proven engineering experience in Enterprise Applications, Product Engineering, Embedded systems and Solutions based on New-Gen technologies – Cloud, Mobile, AI & ML, Industrial IoT, CV, and AR. Flexible engagement models and willingness to invest in long term partnerships.

10+ Years, 100+ Customers, 500+ Employees, 7+ Locations

One stop shop for your

end-to-end IoT development needs

Help to define your IoT roadmap followed by the design, development, and integration of end-to-end IoT solutions to monitor and control systems & processes.

Know Details

Industrial IoT Solution Platform - Delpheon

Accelerate your Industry 4.0 journey

with minimal investment

A low-code Industrial IoT solution development platform connecting machines, people, and processes to unlock new data-driven capabilities.

Know Details

Digitalization Services

Guaranteed ROI for your

digitalization initiatives!

Helping customers to define Digitization roadmap using IoT, Sensors, CV/AR, AI/ML technologies and deploy digitization solutions for optimal operational cost savings.

Know Details

Enterprise Applications Enterprise workflow integration and automation
for efficiency and customer experience

Services include application/workflow integration, automation of forms/CRM, BPM, online shopping, and payment processing, interactive product catalogs, security, content management and BI.

Know Details

Testing Services

For superior Products and

Peace of mind!

Insights-driven testing and automation for speed, quality and productivity that covers functionality, performance, security, and usability across the entire digital portfolio.

Know Details

Professional Services

Ready to deploy, high performing team

that meets your immediate needs

A reliable technology partner for enterprises with engagement models with high flexibility and success rates.

Know Details

Scroll to explore

We are a Technology Services Partner Frontend Backend Mobile Databases

Big data

DevOps

Cloud

Embedded Systems Analytics

Services

Are you looking for custom workflow integration and end-to-end product development ?

Struggling to keep up with Innovation and disruption from emerging technologies?

Need to gather a software development team quickly? Product Engineering IoT

Engineering Digitalization Services Enterprise Applications Testing Services Professional

Services Voice of our Customers

Gadgeon is an extended engineering center for us, and they provide developers, testers, and network engineers to enhance our capabilities. They work on our connectivity management platform and our location-based services platform. They also help with our infrastructure and network... Tushar Sachdev

CTO, KORE

In their long-term partnership, the team has cultivated a strong rapport and rate of success with their partner by taking time to clearly understand their highly-regulated industry. Using several project management tools, they communicated regularly and consistently... Craig Carder

Pres. & Engineering Principal, C3

At the outset of our project, Gadgeon did an excellent job of understanding and documenting our requirements and use cases. They worked diligently to implement each phase of our end-to-end solution and did a great job of meeting commitment dates for each release despite the challenges presented by COVID-19. Tom Penne

Engineering Team Leader, Pella

I want to thank 'Gadgeon's team for understanding our requirements and on-time delivery with excellent quality, which exceeded our expectations. I appreciate your end-to-end IoT expertise, support, and attitude to go the extra mile, making this project a grand success. Bruce Crenshaw
Director of Hardware & IT, Odermark

Gadgeon Smart Systems' team is comprised of competent and curious coders who are eager to understand the technology they're working with. Adapting to shifting customer requirements, they proved to be efficient and flexible. While they could broaden their scope of expertise, they performed very well. Surendar Magar
CEO, LifeSignals

Tushar Sachdev Gadgeon is an extended engineering center for us, and they provide developers, testers, and network engineers to enhance our capabilities. They work on our connectivity management platform and our location-based services platform. They also help with our infrastructure and network.

The quality of their work and the resources they provide are great. They get us the right developers at the right skill set, and they set up a training program to teach the team about our business and our specific implementation process.

Their project management is very good. They keep us up to date on a day-to-day basis, and they do everything necessary to help us scale up. They're metrics-driven, and they manage assignments and team members. They're very proactive, and they work within our processes. We treat them as an extension of our team, so they use all our internal tools for communication and project management.

Craig Carder In their long-term partnership, the team has cultivated a strong rapport and rate of success with their partner by taking time to clearly understand their highly-regulated industry. Using several project management tools, they communicated regularly and consistently. Their experience adds value.

I serve as the project lead, and they're my engineering team. We're often creating low-power wireless solutions, connected solutions, and wearable devices. They're often connected to the cloud, but we've built a broad spectrum of medical devices. We work on equipment both used in and out of the body as well as life sciences lab equipment.

I continue to collaborate with them because of their high-quality abilities and organization.

They've adapted well to our process and structure.

Tom Penne At the outset of our project, Gadgeon did an excellent job of understanding and documenting our requirements and use cases. They worked diligently to implement each phase of our end-to-end solution and did a great job of meeting commitment dates for each release despite the challenges presented by COVID-19. The Gadgeon team was receptive to feedback and ensured that bugs or issues were resolved quickly. When technical issues presented themselves, the team presented solutions and discussed alternate paths to overcome the challenge. I was very pleased with the results of our project and would not hesitate to work with Gadgeon in the future or to recommend them to others.

Bruce Crenshaw I want to thank 'Gadgeon's team for understanding our requirements and on-time delivery with excellent quality, which exceeded our expectations. I appreciate your end-to-end IoT expertise, support, and attitude to go the extra mile, making this project a grand success.

Surendar MagarGadgeon Smart Systems' team is comprised of competent and curious coders who are eager to understand the technology they're working with. Adapting to shifting customer requirements, they proved to be efficient and flexible. While they could broaden their scope of expertise, they performed very well. They've had a very positive impact on our business, and they have tremendous respect for the technical complexities as well as the coding that goes into our products. We treated them as an extension of our own team because they were so on board with us. Their passion and diligence to familiarize themselves with our devices were excellent. Although contracted companies are typically more aloof, Gadgeon was proactive and eager in learning new technologies. I found that sense of initiative to be very impressive...

Success Stories

Mobile App Enabled School Emergency Response SolutionOur Customer Wanted a reliable communication system so that events leading to emergencies can be monitored and responded to at schools or buildings.

Extended Engineering CenterNorth America's largest MVNO and IoT company, who provides connectivity and Analytics solutions for Industries, was looking for a strong development and engineering organization to help them scale out.

Test Automation and CI CD deployment For Lighting Control SolutionOur customer is one of the market leaders in wireless lighting control solutions. The lighting control IoT solution reduces the energy consumption of buildings by up to 85%. They were looking for a partner company to ensure the quality of code for each commit and a CI/CD environment setup.

Product Engineering

Our Product engineering services use hardware, embedded, software, and IT solutions for faster design, development, and launching of products. Today, lack of the right domain experience or technical expertise is not a barrier to building profitable products. Instead of relying on home grown talent and resources, which requires high investment in time and money, customers can leverage the expertise of product engineering service (PES) from Gadgeon.

Engaging with Gadgeon for Product engineering services is the best way to develop your products. We ensure that your intellectual property (IP) remains safe due to the nature of our contracts. There are several benefits in partnering with Gadgeon for your product engineering needs. We reduce the service and manufacturing costs and increase business agility.

Product Development

Product development is all about strategy. We collaborate from the beginning to identify opportunities and develop concepts, helping to shape your strategy. We enable you by determining the right-sized delivery strategy so that you can quickly obtain customer feedback. Our experienced product development team is ready to partner closely to successfully define, build, and evolve compelling and high-performing products.

Gadgeon's consultancy based approach makes sure that both the functional and the non-functional requirements are addressed right from the design stage itself. We bring several industry best practices that accelerate and optimize our product engineering services. We take complete ownership in all product engineering services like hardware design, firmware design & development, proto build, firmware integration, and manufacturing tests & certifications.

Gadgeon leverages the Design thinking approach for product ideation, prototyping and life cycle management.

We take complete ownership in all areas of Embedded Systems from hardware design, firmware design & development, proto build, firmware integration, test & validation and manufacturing tests & certifications.

We develop prototypes that are as reliable as working products. We help our customers engineering teams to identify and use the latest technologies in their products. We contribute to whole product development as well as sub-system development.

Hardware Design

We bring extensive hardware design expertise with a small footprint, high-speed digital, RF design, wireless & industrial design, and power supply design. We handle designs with high component density, tight timing constraints, and custom small form factors for wearable and standard form factors like ATCA, AMC, CPCI, PMC, SCSI, ATX ECX, Mini ITX, Pico ITX, Nano ITX and QSeven.

Embedded Firmware

Embedded firmware has been one of Gadgeon's core strengths. We have engineers with years of experience in embedded software development across various chipsets. We offer OS/Application porting, platform development, Wired/Wireless connectivity, development of device drivers, and system tuning.

Embedded Testing

Built-in libraries to interact with DUT interfaces, wireless sniffers and protocol analyzers for protocol/data validation, unit testing automation in hosted and target environments, custom python stubs for M2M protocol validation and performance benchmarking, NMAP/OWASP plug-ins for security vulnerability analysis, HTML/XML based test reports and logs, Configurable options for recovery from fatal errors, Built-in libraries to deploy embedded/ firmware/ application images on target devices or environments.

Board Validation & Manufacturing Test Software

We cover the functionality of all peripherals, interfaces and wireless modules that need to be tested during the manufacturing process.

What We Do?

Hardware design & development

Firmware development

Embedded testing

Manufacturing Support services including certifications

Market evolutions drive technology organizations to introduce next-gen products to meet their strategic goals. At the same time, there is a critical need to effectively sustain previous generation products to retain customer revenues and experience. Gadgeon Product Sustenance services help extend the life of revenue-generating products by:

Maintain/Sustain legacy or earlier generation products

Ensure sustained customer experience and loyalty from existing products & systems

Full ownership of the entire life-cycle of products, including knowledge management and retention

Proven industry-standard framework for the transition to ensure uninterrupted product availability

The cost involved could be quite high and forbidding. To manage both at an optimized cost and without quality impact requires sustenance service from an able and reliable partner like Gadgeon.

We follow a structured, phased approach in delivering the product sustenance and maintenance services.

Gadgeon provides end-to-end IoT engineering services from edge devices/sensors, cloud, to mobile/web applications. We serve enterprises, start-ups, and OEMs in connecting devices to IoT edge gateways communicating over different protocols. Gadgeon provides IoT software development and IoT software Services towards building Industrial as well as non-industrial IoT Solutions and services offered in different models such as SaaS, PaaS, etc. Our end-to-end solution testing, including test automation, makes sure that all the system components are tested and validated right from design to delivery stage.

Gadgeon helps enterprises from different industries develop connected devices that include wearable, smart sensors, and smart appliances.

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Gadgeon is the one-stop source to start your IoT Journey. Our IoT consulting service facilitates analysis on the transformation potential of the proposed use case along with requirement specification and solution architecture. We help select the technology stacks for connectivity, embedded software, cloud platform & software, companion mobile apps, security strategy, protocols to be used, along with an overall solution development roadmap.

Sensor Nodes - Gadgeon offers integration of standard sensors and the design of custom sensors as per use case requirements. Our sensor integration expertise covers a range of embedded devices for medical, consumer, industrial, security and surveillance applications.

Hardware

Sensor node selection and analysis for different IoT use cases

Custom sensor node design and development

Sensor interface design with product development

Interfaces - BLE, WiFi, ZigBee, ZWave, 6LoWPAN, wireless HART, LoRa, simplicity, Sub GHz RF, Serial (RS485/232)

Sensor bring up and testing

Software

Sensor driver development and integration

Protocol development for sensor interface - Thread, AllJoyn, ModBus, BACnet

Use case validation and testing

Edge Gateways - To manage and control a complex IoT environment with multiple connectivity options, protocols, types of devices, dispersed systems, and an ever-growing number of connected devices requires an Edge Gateway with the right hardware and firmware that ensures adequate computational power and capacity.

Cloud / Mobile App - We develop custom cloud apps that store & process data along with companion mobile apps to harness the power of connected devices and empower enterprises with data-driven business insights.

End-to-end Testing - An IoT Solution deployment has high technical complexity as vast volumes of data get generated and transmitted over different connectivity layers. IoT applications and solutions demand a holistic approach in their testing. Gadgeon brings the right expertise, tools, and framework towards end-to-end IoT Solution testing and test automation.

Industry 4.0 refers to the 4th industrial revolution realized by applying the latest technologies to core production systems and business processes such as supply, delivery and many more. Manufacturers can future-proof their operations by redefining the creation and capturing of value across their production facilities through the application of technologies such as sensors, IoT, cloud and AI & ML.

Digitalization Consultancy - Our digitalization consulting services help drive transformation by bringing together the capabilities that drive business growth in this digital age. The main purpose of digitalization consulting services is to help companies and organizations achieve their digital transformation and innovation goals efficiently. This will help them to stay relevant using technology and digital channels.

Our consulting service helps build and implement the most suitable digital strategy that leverages the right combination of products, services, capabilities, and technologies to achieve the business goals.

IIoT Solutions on Delpheon - Delpheon is a rapid Industrial IoT solution development platform from Gadgeon. Delpheon solutions for the Industrial Internet of Things (IIoT) can connect machines, employees, processes and unlock new data-driven capabilities.

We can customize, configure and deploy Delpheon to deliver tangible business value for your needs. Delpheon's scalable and open architecture enables multiple IIoT solutions under one umbrella that securely connect devices and applications.

More details can be found at www.delpheon.io

Industry 4.0 is a concept with frameworks and reference architectures to connect physical business assets using digital technologies. Gadgeon adopts systematic, independent and established processes for obtaining evidence and evaluating objectively to determine the maturity level of Industry 4.0 implementation as a baseline. It is a holistic assessment of operational and business processes for benchmarks and practices of Industry 4.0. The assessment also involves identifying gaps and helping the customer identify improvement opportunities to initiate, scale and sustain their Industry4.0 journey.

Phase-1: Assessment

This phase aims at creating a baseline of your current systems, capabilities and gaps and assesses Industry 4.0 current status based on a maturity level model.

Baseline Assessment - Baseline assessment is conducted on two aspects: The first one is the assessment of Industry 4.0 technology applications across core production processes and business processes such as sourcing, delivery etc. The second one is the assessment of technology applications to improve business excellence.

Gap analysis - Once we clarify the present state, we will start creating a systematic mapping to the future state (key opportunities for improvement, expected ROI, along with cost estimates).

Phase-2: Roadmap

Customized roadmap - We work with you in identifying and defining initiatives with the highest impact along with phases, goals, costs, ROI, and timelines.

Business case evaluation - Determine the importance of each initiative based on cost, risk and benefit analysis and define the right key performance indicators that will highlight the actual value of Industry 4.0 solutions to your business.

Technical solutions - Identify and recommend high-level solutions, technologies and platforms. Develop a high-level digital architecture and data flow between enterprise business, manufacturing operations and automation controls.

Assessment Model

The assessment model consists of five levels of maturity ratings. All the dimensions are assessed individually against these maturity levels, with an overall rating for the entire scope of assessment.

A successful digitalization approach should be viewed more from a customer experience perspective than purely as a large process automation / IT modernization initiative. Digitalization is all about business simplification that helps to build self-sufficient business models for cost-effectiveness and consistent value. A successful digitalization initiative requires key ingredients like an aligned vision, prioritized goals, and a pragmatic digital-first approach for implementation with strong enablers and foundational elements.

Our digitalization services help the customers use new technology appropriately and allocate resources for optimal operational benefit. We prepare a digital strategy and roadmap for organizations. We bring the expertise to conceptualize and design technology-enabled services and governance approaches by synthesizing online and offline modes of operations.

Digital Advisory Services

Our digitalization consulting services help drive transformation by bringing together the capabilities that drive business growth in this digital age. The main purpose of digitalization consulting services is to help companies and organizations achieve their digital transformation and innovation goals in the most efficient way. This will help them to stay relevant using technology and digital channels.

Our consulting service helps build and implement the most suitable digital strategy that leverages the right combination of products, services, capabilities, and technologies to achieve the business goals.

We guide our clients on designing modern digital interactions that maximize technology and innovation investments across customer experience touch-points. Progressing technologies, the growing influence of social media, rapidly changing competitive landscape forces companies into a race to stay relevant in their respective market. Our digital advisory services can help customers to win this race. We help our clients scale up and explore new digital channels, get the best of industry-specific digital products and platforms, create integration strategy and use shifts in competition for the benefit of their clients. This enables companies to improve their customer reach using emerging technologies and channels, scale up to new platforms and create a seamless experience across the web, mobile, IoT, wearable, etc.

Digital consulting / advisory services to optimize efforts and reduce expenses and risks for customers' digital journey.

What We Do?

Digital strategy & Roadmap development

Guide clients on designing modern digital interactions across customer experience touch points

Helps customers to stay relevant in their market
Optimize cost and reduce risks

Gadgeon has identified strategic focus areas in the emerging technology space, which are expected to create significant social and economic benefits. We have a dedicated team working on AI & ML, Computer Vision-based systems, and Augmented Reality (AR) & Virtual Reality (VR) solutions. We conceptualize and implement use cases for business, social, and economic benefits across industries.

Our computer vision-driven services are domain agnostic and cognitively performs tasks similar to humans but with better precision and zero errors. Our expertise includes dynamic controls of robots using real-time image processing involving deep learning and big data.

Customers are constantly looking for innovative ways of interacting with businesses and getting their money the most return. Gadgeon helps its customers as a leading VR and AR development company and uses best-breed tools and techniques. We assist businesses in providing a virtual environment much like that of the physical world.

We help clients to save money and time by automating routine business process automation and industrial automation activities. Our services are designed to help improve your process efficiency by 30% within 60 days.

What We Do?

Computer Vision based Solutions

Augmented Reality(AR) based Systems

Data Analytics – AI & ML

Cognitive Process Automation

Use Cases

Object recognition, classification and sorting

Detection of visual defects and anomalies

Assembly verification

High-precision measurement

Recognition of item location and positioning

Counting in piles, stacks, and more (including touching and overlapping objects)

Optical character recognition (OCR)

Identifying behaviour anomalies and alarms in surveillance videos

Video analytics

Healthcare - Surgery simulations; Gami-fied rehabilitation; Medical education

When the time comes to deploy new digital systems, several considerations can affect a smooth deployment and, therefore, user satisfaction. We provide the right solution for you by tailoring the levels of support required to meet all your needs.

We help build a fully functional prototype that will validate all aspects of the design before moving to a solution rollout. It is highly recommended to include this phase into every digital transformation project to ensure a successful deployment.

What We Do?

Digital strategy & roadmap implementation

Accelerate enterprise technology adoption

Custom development of applications & systems

Agile delivery transformation & continuous improvement initiatives

Organizational agility and change management

Why Gadgeon?

Deep technology expertise

Result-focused approach

End-to-end deployment capability

Adoption of industry best practices and tools for quicker deployment of quality solutions

Our Data Analytics and Big Data Services include data engineering consulting, development and support of analytical insights. It helps companies maximize value and achieve business goals. It also helps capture and store big data in real-time. It analyzes it to uncover hidden patterns and unknown correlations.

Imagine a steady stream of insights to fuel intelligent technologies, 360-degree customer views to boost relevance and revenue, or faster & smarter decisions to accelerate innovation. Our Data & Analytics services can do this for you. We will tailor your solution with the right talent and technologies to suit your industry and business objectives.

Our data engineering solutions, used in conjunction with Big Data and AI solutions, create an indispensable asset for our customers by making sense of diverse data structures and improving their business decision-making quality, speed, and impact.

Many enterprises face challenges with complex application landscapes— a mix of legacy systems, digital, SaaS and many more. These applications consume a large share of their IT resources and restrict their ability to drive digital growth. Our technology-driven approach to application services will enable enterprises to reinvent their application portfolio. They could use emerging technologies, building with speed and agility to meet today's and future business needs.

Gadgeon's Enterprise Application services enable the digital transformation of multiple front and back-office business processes to simplify and integrate to achieve key business goal – to win in the digital economy. We enable better sharing of information by streamlining IT processes, automating workflows and improving IT flexibility.

Offerings from Gadgeon

IT Consulting

Our team of consultants and business analysts will work with your team to conduct an in-depth analysis of your requirements - both functional and non-functional along with due diligence of your enterprise IT environment. This enables us to evaluate technology solution options and develop a high-level architecture and estimates to build and integrate business workflows that meet your business needs.

Understanding your needs fully before planning IT Strategy

We work with you to discover where and what to be improved, your goals, objectives and expected results. This will enable us to plan and develop a comprehensive IT strategy for your enterprise, combining different technology strategies with business strategies.

Align strategies with objectives

Strategic advisory services help our clients to assess their IT needs and formulate system implementation plans. We will use the emerging technologies to create a logical system design and supporting infrastructure to meet customer requirements.

Develop custom solutions for your enterprise

We continually raise the bar on our IT consulting service by measuring, reporting and improving. We will enable you to focus on critical business goals while our consultants cover operational activities.

Enterprise Workflow Implementation

We help you integrate and orchestrate scattered enterprise applications that deliver business process continuity, data integrity, barrier-free collaboration and automation of business workflows. We will ensure a perfect and secure software environment for your enterprise with well-integrated organizational and client-centric workflows.

We leverage evolving business requirements and cutting-edge technologies to build strong binding between existing applications with newer apps, third-party applications, APIs, and data.

We integrate seamlessly with SMS/e-mail gateways, payment systems, trading platforms, and other enterprise systems to deliver rich features quicker with agility.

What We Do?

Omni-channel commerce solutions

Mobile commerce

System Integration

Ecommerce platform migrations

Warehouse management

Loyalty Management

Order Management

Product Information Management

Our Differentiators

Digital Experience with Mobile first approach

Ultra short time to market using Microservice-Cloud Native-Headless architecture leveraging off the shelf solutions

Increased online conversion using context aware personalization and data analytics

Hosted/Managed solutions to reduce maintenance overhead for customers

Improved UX to enhance customer engagement

Technology Stack

Commerce

Shopify

Salesforce Commerce Cloud

Commerce Tools

BigCommerce

Magento

OpenCart

PIM(Product Info Mgmt Systems)

Akeneo

Salsify

Riversand

Pimcore

CMS Systems

BigCommerce

Drupal

Joomla

Shopify

Enterprise Application Maintenance

Enterprise Application Maintenance

Our Enterprise Application Maintenance services aim to ensure that your applications are highly available, reliable, and relevant to evolving business needs. We follow industry best practices in application maintenance and support that include a phased & structured framework for transition, service stabilization, governance, communication, knowledge management, service delivery, and continuous improvement.

right arrow

Legacy Application Upgrade and Modernization

Our Enterprise Application Maintenance services aim to ensure that your applications are highly available, reliable, and relevant to evolving business needs. We follow industry best practices in application maintenance and support that include a phased & structured framework for transition, service stabilization, governance, communication, knowledge management, service delivery, and continuous improvement.

What We Do?

Application enhancement

Regular enhancements based on inputs and feedback from the users' experience. While the enterprise maintains a list of feature enhancements to be added, our engineers will enable their implementation.

Application support

We drive constant business growth with efficient application support and maintenance services. We bring the right industry expertise in managing enterprise application support for all users and stakeholders. Our end-user and the Operation team are responsible for patch maintenance and backups. We enable continuous monitoring of applications for performance, errors, and bugs to ensure higher availability.

Application Upgrades and Migration

Upgrading applications to the latest version and the migration of data is critical as enterprise applications continue to evolve over time.

Legacy applications have the chance of being a significant burden on the IT budget of enterprises. This could include higher maintenance costs, low flexibility for change according to the changing business needs, unfamiliar or unfriendly user experience. These factors drive the need for the modernisation of these legacy applications.

We help you revitalise legacy software systems by reviewing its technical architecture, migrating it to newer platforms, enriching it with fresh features, making it device-agnostic, improving its UI and UX, and aligning it with modern security requirements.

Gadgeon brings extensive experience in hosting and migrating to different cloud environments (Google Cloud, Amazon AWS, MS Azure) and the creation of auto-scaling applications using Kubernetes. We provide seamless zero-downtime delivery, CI/CD pipelines with automatic unit/integration/ automation/ stress tests.

What We Do?

Application assessment

Business Requirement mining

Evaluate and formulate the modernization Approach

Application feature enhancements

Re-architecting and re-factoring

Platform migrations

User Interface / Experience modernization

Why Gadgeon?

Minimal disruption to business operations

Robust API development expertise

Domain and technical expertise

Result-oriented approach

Benefits

Increased revenue

Higher productivity

Lower operational cost

Increased business agility

Superior User experience

We enable enterprises with the state-of-the-art, intelligent and insights-driven quality assurance and software testing practices. Our testing services cater to the testing needs of digital systems. We develop checklists, frameworks, processes, methodologies, and best practices to ensure effective and efficient validations of applications across devices. Gadgeon, with its proven experience and end-to-end testing services, addresses challenges like functionality, performance, security, usability, and cross-device compatibility of your applications across the entire digital portfolio.

Metrics-driven exhaustive test execution and static code coverage analysis, and continuous integration and release cycles will ensure a stable, high-quality system irrespective of the complexities involved. Gadgeon's test automation framework for testing supports multiple interface protocols, devices, actuators, and components to ensure the right test lab setup. Our test automation philosophy starts with developing a balanced test automation approach. We will begin with an assessment of the automation needs along with the entire application landscape. This enables us to customize the Gadgeon test automation framework (GTF) to your specific application needs, environment, and tools that take care of complete system testing integrated with CI/CD covering the testing of multiple applications.

Application Testing

Our testing services ensure quality in every step of the application development lifecycle and leverage proved methodologies and tools in performing functional and non-functional testing and automation. Our approach to application testing consists of continuous testing during the entire application life cycle, which is risk-driven and focused on business goals. We always try to ensure the right balance between automated and manual testing.

Our Testing Services caters to the testing needs of digital systems. We cater to all-inclusive testing across your enterprise like web and mobile browsers, web portals, and desktop applications. We develop checklists, frameworks, processes, methodologies, and best practices to ensure effective and efficient validations of applications across devices.

Gadgeon, with its proven experience and end-to-end testing services, Gadgeon can address challenges like functionality, performance, security, usability, and cross-device compatibility of your applications across the entire digital portfolio.

Embedded System Testing

Gadgeon's embedded testing services provide comprehensive quality management for embedded systems. A comprehensive test strategy requires the execution of different types of testing, test lab setup, tools and simulators to be deployed. It comprises test management, test planning, test scenario identification, test environment management and execution of test cases – manually and automated. Both the functional and non-functional requirements like security, performance, stress testing etc., will be covered. We bring thought leadership by recommending

and implementing process tailoring, guidelines, best practices, templates, and continuous improvements.

Metrics-driven exhaustive test execution and static code coverage analysis, and continuous integration and release cycles will ensure a stable, high-quality embedded system irrespective of the complexities involved. For end-to-end horizontal tests, the test environment setup is vital. Gadgeon's test automation framework for embedded testing supports multiple interface protocols, devices, actuators, and components to ensure the right test lab setup.

Our test automation philosophy starts with developing a balanced test automation approach. We will begin with an assessment of the automation needs along with the application landscape. This enables us to customize the Gadgeon test automation framework (GTF) to your specific application needs, environment, and tools.

Mobile App Testing

Thousands of mobile applications are getting launched worldwide, and consumers demand high degrees of reliability, security and usability from these apps. Therefore, the need for a comprehensive mobile app testing process that certifies the mobile app and the back-end systems and interfaces is evident. We have implemented, tested, and released multiple mobile apps on iOS and Android for our customers with exceptional quality. Our team delivers intuitive user experiences. Our test automation framework ensures coverage of a wide range of devices available in today's market.

Challenges in Mobile Testing and Test Automation

Device variations – The number of devices available today is enormous. Testing a mobile app across these devices is a challenge with huge effort and cost.

Tools availability – Mobile app testing tools are limited when compared to traditional app testing.

Network impacts – The Carrier network can have an enormous effect on the user experience with an app. Hence mobile apps are to be tested with the most possible combinations of network conditions.

Industry standards – Mobile apps are expected to meet industry standards for their global acceptance and usage. Testing against these standards is complex, both time and effort-intensive.

Gadgeon uses the following categories like Smartphone OS versions, screen resolutions, and Smartphone vendors of Mobile devices to address these challenges to be part of mobile testing and test automation. Emphasis is given for mobile app performance testing with different connectivity modes and conditions.

Our test automation philosophy starts with developing a balanced test automation approach. We will begin with an assessment of the automation needs along with the application landscape. This enables us to customize the Gadgeon test automation framework (GTF) to your specific application needs, environment, and tools.

Gadgeon Test Automation Framework (GTF)

Gadgeon has developed a test automation framework that can complete system testing integrated with CI/CD covering the testing of multiple applications. The capabilities of GTF is summarized below:

Professional Services

Talent sourcing via partner model is a well-established practice in the industry. Enterprises need a technology partner who is reliable and experienced like Gadgeon to meet the talent challenges quickly and effectively. We offer multiple project engagement models with flexibility and high success rates like staff augmentation – hiring a developer model; fixed cost, time & cost model; and managed agile team.

Extended Engineering team is a joint journey where Gadgeon guides our customers by following a phased industry-standard framework for transition, service delivery, and continuous optimization. This model involves teams that are a true extension to the client's team and are mainly placed at Gadgeon's offshore development location(s). It allows maximum flexibility in the execution of multiple projects using the best-fit pricing model.

When it comes to staffing solutions, one model doesn't fit all the requirements. Gadgeon's managed capacity services aim at helping customers in their digital journey by offering flexible staffing solutions where customers buy services. At the same time, Gadgeon defines and provides capacity, and the customer provides overall direction. In contrast, Gadgeon manages and control the output of the service. The processes are tailored according to the customer processes. The output is measured through agreed delivery and performance metrics and supports multiple pricing models.

Extended Engineering team is a joint journey where Gadgeon guides our customers by following a phased industry-standard framework for transition, service delivery, and continuous optimization. This model involves teams that extend the client's team and are mainly placed at Gadgeon's offshore development location(s).

A dedicated team will offer a set of resources with relevant and pre-identified skill sets that the client has access to and control over in terms of work allocation, status tracking, reporting and getting changes done at short notice. This model allows maximum flexibility in the execution of multiple projects using the best-fit pricing model.

We have simplified the complex process of setting up a highly aligned and high performing global delivery team in the shortest time of 3 to 4 weeks. We invest in training the team in the client's business, processes, and tools to get fully aligned and get going from the very start.

The model can be set up to be transformed to a Build-Operate-Transfer (BOT) model. In the short-term and long-term, an extended engineering team with Gadgeon is an asset to customers.

Our Approach

Ramp-up engineering team per customer requirements

Train the team on customer's business, process, tools, and project execution methodology etc. to create complete alignment

Establish infrastructure, assets, access to systems & tools

Establish communication & governance framework for transparent execution by the team

Benefits

Guaranteed business transformation & scale

Cost-effective engineering & IT operations

Enhanced ability to innovate and respond to customer demands quickly

Easy to adapt and institutionalize engineering best practices

Flexibility to focus on core priority business strategy by the internal team.

When it comes to staffing solutions, no one model fits all requirements.

Gadgeon's managed capacity services aim at helping customers in their digital journey by offering staffing solutions where:

Customer buys services, while Gadgeon defines and provides capacity.

The Customer provides overall direction while Gadgeon manages and control the output of the service.

The process is tailored according to the customer processes.

Output is measured through agreed delivery and performance metrics.

Multiple pricing models can be adopted like SLA based pricing, work volume linked pricing, along risk-reward and incentive-based models.

Staffing services models

Staff Augmentation Services

Project-based staffing

Technology-based staffing

The team composition can be local (on-shore / near-shore) or offshore (based in India), or a combination of on-shore & offshore.

Our Approach

Understand the project and staffing requirements

Create your team

Train the team on customer business, process, and tools

Ramp up the team based on demand

Execute the projects

Transparent operations with multi-level communication between teams

Project Based Staffing

With the advancement of digital technologies, enterprises are under constant pressure to respond and deliver to the demands of their customers and business competitors. To meet this high demand, talent sourcing via outsourcing model is a well-established practice in the industry.

Enterprises need a technology partner who is reliable and experienced like Gadgeon. We offer multiple project engagement models with flexibility and high success rates:

Staff augmentation – hiring a developer model

Fixed cost, Time & cost model

Managed agile team

These models offer maximum flexibility, especially at the starting of a partnership. As the engagement progresses, the trust and confidence build-up, leading to execution models with a higher scope of responsibility and ownership.

Our Approach

Understand the project and staffing requirements

Execute tasks in staff augmentation model

Execution of fixed scope of work

Execute scope of work in Time & Cost model

Set up an agile team to work in the managed capacity model

Benefits

Best staffing models with maximum control and budget

Reduced development costs

Highly skilled engineers on-demand enabling the on-time completion of projects

Best practice to get tactical projects done quickly and effectively

Technology based Staffing

With the advancement of digital technologies, enterprises are in constant pressure to respond and deliver to the demands of its customers and business competitors. In order to meet this high demand, talent sourcing via outsourcing model is a well established practice in the industry.

Gadgeon, with its continuous focus on emerging technology, offers the most flexible and technology-based staff augmentation services to its customers at optimum cost.

Industries:

Digital Healthcare

Having the right digital healthcare partner is critical for implementing cutting-edge solutions that fast track organizational goals and objectives. Gadgeon with a proven track record in developing FDA approved medical devices and companion mobile apps, complying with ISO 13485 and IEC 62304 standards.

Wearable Medical Devices - Gadgeon provides end-to-end solutions for design, development, and testing for wearable medical devices. Legacy medical devices can collect valuable data when connected to the internet, giving further insight into underlying symptoms and trends. It enables remote care with personalized medicine and provides patients better control over their lives and treatment.

mHealth Applications - Gadgeon provides mHealth services that are user-friendly, highly effective, and thereby helping clients accelerate their revenue growth.

Cloud-based solution for remote patient monitoring along with companion mobile application

Native Android development using Android Studio

Responsive UI/UX development

Voice-activated control from mobile apps

Alexa custom skills development for integrating devices

EMR/EHR Cloud Integration - EMR/EHR systems facilitate hassle-free maintenance of patients' medical records for gaining better insights about health and treatment plans.

Cloud integration and application development

Electronic Medical Records (EMR) integrations

Medical standards like HL7, FHIR, DICOM, etc.

Healthcare interoperability solutions

Medical Devices - Embedded medical devices are developed and deployed to monitor vital signs and in nearly every imaging system, including PET scans, CT scans, and MRIs. Glucose monitors, pacemakers, CPAP machines, and various biomedical sensors also rely on embedded systems.

Connected Factories

Creating value through smart connected manufacturing involves establishing ecosystems of connected products and services to transform operations, value chains and customer experience. This typically means modernizing and extending the digital platform to facilitate collaboration with internal and external partners, suppliers, customers and other entities in the ecosystem and automating processes.

Gadgeon has developed an IoT solution development framework – Delpheon, with proven hardware and software components. Delpheon enables integration of existing legacy machines as well as modern machines towards digitalization of a factory with basic features of an IIoT solution:

Data collection - Secure data collection devices, processes, and machines.

Visualization and Control - Real-time display of operational data in a customizable interface for local and remote controls.

Data Management - Contextualization of data across equipment and facilities in one simple platform for making informed and reliable business decisions.

Analytics and Reporting - Using advanced algorithms, real-time data with machine learning applications to make calculations and provide predictions and estimates. Analysis of both historical and real-time data facilitates accurate conclusions.

Smart Manufacturing

Use cases

Manufacturing Operations

Quality Assurance

Equipment Maintenance
Sustainability and Safety
Warehouse Operations
Inventory Management
Supply Chain Management
Fleet Management
Warehouse Management
Benefits

Greater Productivity and Lower Costs – Through optimization and automation.

New Revenue Streams - Advanced, customized products combined with connected after-sales services

Improved Customer Experiences - Integrating customer data and AI enables personalized interactions and proactive customer services.

Retail & E-Commerce

We help integrate and orchestrate scattered enterprise applications that deliver business process continuity, data integrity, barrier-free collaboration and automation of business workflows. We will ensure a perfect and secure software environment for your enterprise with well-integrated organizational and client-centric workflows.

What We Do?

Content Management
Promotion management
Mobility solutions
Personalization
Analytics
Storefront
Subscription commerce
Contact centre
Global Market place
Technology Stack Supported
Commerce
Shopify
Salesforce Commerce Cloud
Commerce Tools
BigCommerce
Magento
OpenCart
CMS Systems
BigCommerce
Drupal
Joomla
Shopify
PIM(Product Info Mgmt Systems)

Akeneo

Salsify

Riversand

Pimcore

Our Differentiators

Digital Experience with a mobile-first approach

Ultra short time to market using Microservice-Cloud Native-Headless architecture leveraging off the shelf solutions

Increased online conversion using context-aware personalization and data analytics

Hosted/Managed solutions to reduce maintenance overhead for customers

Improved UX to enhance customer engagement

SEO Optimized Pages to improve Search ranking

Challenges & Opportunities

Online Identity Verification

Cyber & Data Security

Shopping cart abandonment

Nurturing Customer Loyalty

Product Returns & Refunds

Exploding Customer Expectations

Social Media Shopping

Mobile e-commerce

E-commerce automation

Virtual and Augmented reality

right arrow

Connected Factories

Connected Factories

Creating value through smart connected manufacturing involves establishing ecosystems of connected products and services to transform operations, value chains and customer experience. This typically means modernizing and extending the digital platform to facilitate collaboration with internal and external partners, suppliers, customers and other entities in the ecosystem and automating processes. Our Industrial IoT consultancy and Industry 4.0 readiness assessment helps in creating a detailed roadmap for your industry 4.0 journey.

right arrow

Retail & E-Commerce

Retail & E-Commerce

We help integrate and orchestrate scattered enterprise applications that deliver business process continuity, data integrity, barrier-free collaboration and automation of business workflows. We will ensure a perfect and secure software environment for your enterprise with well-integrated organizational and client-centric workflows.

right arrow

Home & Building Automation

Home & Building Automation

Gadgeon brings over 250+ man-years of product engineering experience in designing and developing end-to-end connected solutions consisting of gateways, sensors, and devices for integration of home & building automation use cases. By leveraging our flagship IoT solution development platform – Delpheon, we accelerate solution development at a lower cost in the Home & Building automation space. With the right focus on data security in the connected home arena, we are on the front line to deliver the most appropriate solution that makes any smart home idea a reality.

right arrow

Home & Building Automation

Gadgeon develops custom solutions with our deep domain and product engineering experience. We can accelerate solution development at a lower cost by leveraging our flagship IoT solution development platform – Delpheon.

With the right focus on data security in the connected home arena, we are on the front line to deliver the ideal solution that makes any smart home idea a reality.

What Do We Deliver?

Integrating smarter products with orchestration from a controller to make life simpler.

The connected technology interacting together gives the user complete control over the property with an enhanced user experience.

Gadgeon's future-ready Home and Building Management (HBMS) framework, based on its award-winning Delpheon platform, offers a scalable solution

HBMS can be used for faster deployment of new product ideas that meets every size and budget.

Use cases supported

Energy and utility Management – Multiple sources of energy, including backup and smart metering

HVAC control –Optimal power utilization for HVAC, air quality monitoring

Asset tracking and management

Security and Surveillance – Access control, motion detection, alarms

Environmental parameters / CO2 Monitoring

Smart Gadgets and Sensors

Embedded Engineering – Design and developed a wide range of sensor modules using micro-controllers - door locks with BLE, smoke sensors, occupancy sensors, intercom systems, Water valves, Smart thermostats, etc

IoT Enablement – Development & integration of device drivers and wireless stacks for micro-controller based systems for end-to-end IoT systems with low power wireless technologies like Z-wave, ZigBee, Thread, BLE and Sub GHz RF

Micro-controller Expertise and optimal System/ Hardware Design

on cost, processing power, bandwidth, security and power-optimized the design to meet long battery life requirements

Communication

Communication

With our broad expertise in the telecom and communication area, we provide IoT technology assistance for your solutions and services that could include sensor integration, cloud connectivity, application re-architecting and data analytics. We help transform business models for CSPs through smart connectivity facilitation, Data monetization, and newer revenue streams. Are you in the middle of migrating traditional networking products and services to the cloud? Need to build a fast-tracked “Concept-to-Prototype” for your IoT enablement? Planning to leverage micro-services architecture to take care of the dynamic feature release or migration of legacy systems? We are here to help you.

right arrow

Communication

Are you in the middle of migrating traditional networking products and services to the cloud? Need to build a fast-tracked “Concept-to-Prototype” for your IoT enablement? Planning to leverage micro-services architecture to take care of the dynamic feature release or migration of legacy systems? We are here to help you.

The Communication Service Provider (CSP) industry is going through a transformational phase to adapt to the latest technological and cloud trends. Technologies like 5G, IoT, augmented reality, virtual reality, artificial intelligence, and micro-services architectures necessitate CSPs to realign their business strategies, re-engineer products, restructure their business offerings, etc. Gadgeon can partner with you in meeting these challenges at speed, quality and agility.

IoT Enablement

Sensor Connectivity – BT/BLE, WiFi, ZigBee, ZWave, 6LoWPAN, HART, OPC-UA, LoRa, Sub GHz RF, RS232, RS485.

Connectivity to Cloud – 5G/LTE/ 4G, WiFi, Ethernet, Satellite.

Cloud Integration – Protocol selection (MQTT, AMQP, CoAP, WebSockets, REST API, etc.),

Gateway services/components (Azure IoT Hub, AWS IoT, IBM Watson IoT, Apache ActiveMQ, Socket.io, API Gateway, etc.).

Cloud Services/Components Design – Cloud host providers (AWS or Google Or Azure), IaaS or PaaS Or Containers like Kubernetes.

Application Architecture – Micro-service architecture and server less architecture.

Database – Decide the type of DB (SQL or NoSQL or combination of SQL and NoSQL DBs), select appropriate DB (Postgresql, Oracle, Cassandra, MongoDB, Cosmos DB, Dynamo DB etc.), DB design and data modelling, DB optimization.

Heavy equipment leasing companies – remote monitoring & diagnostics

Electronic billboard companies – billboard maintenance & management

Telecom tower – Monitoring & management

Utility operators – Real-time monitoring & analytics

Manufacturing – Real-time production monitoring & OEE

Home & Building Automation – Security and safety Solutions, Device management

Smart Health platforms and enablement DelpheonTM

DelpheonTM is Gadgeon's flagship Industrial IoT solution platform with pre-defined and well-tested components across all layers to swiftly realise an IIoT solution. These components enable data collection & harmonisation from sources such as sensors, equipment & PLCs etc., connectivity to on-premise / cloud server using Kafka or IoT Hub or MQTT, data storage, analytics & visualisation, security & access control, a rules engine for defining and detection of complex events along with handling controls, APIs for integration with enterprise applications. Delpheon as a low-code or No-code IIoT platform enables kick-starting of the Industry 4.0 journey of our customers.

More details www.delpheon.io
Delpheon-IO Module

Delpheon - IO Module is used to instrument legacy equipment on a factory floor for remote monitoring and control. Equipped with analog inputs, digital I/O and relay outputs which can be connected to Sensors and Actuators.

It acts as ModBus TCP or RTU slave controlled from an IoT Gateway or any ModBus master controller. Alternately it can bridge legacy devices supporting only RS485 to Ethernet using in a protocol converter mode.

Industries can leverage the Delpheon-IO module for implementing solutions like Building management systems, Industrial automation, Infrastructure monitoring etc.

Delpheon-Gateway is an Industrial IoT Gateway from Gadgeon. A Linux based field gateway software that runs on any industrial grade off-the-shelf hardware deployed on-premise. Delpheon-Gateway is a field Gateway located on the factory floor which connects existing PLC, SCADA system and legacy equipment for data collection and aggregation. It supports all major industrial PLCs from Siemens, Mitsubishi, Bachmann, OMRON, etc. Before sending data to the cloud database, it harmonizes different protocols like Modbus, BACnet, OPC-UA, PROFINET, HART-IP.

Delpheon-Gateway solves one of the most critical challenges of Industrial IoT – data collection and control of heterogeneous machines on a factory floor.

Features

Industrial data collection made easy

Source network is isolated from consumption network for security

Easy to configure - In just a few clicks, can connect to any data source (Industrial assets)

Data sources like PLCs, IO Modules, Robotic Controllers, Equipment, and Sensors are supported

Can be integrated with multiple cloud platforms or on-premise server

Store and forward for handling unreliable connectivity with the server

Benefits

Start the Industry 4.0 journey with minimal investment

Additional value realized from legacy equipment

Handles data collection at different scales

The cost-effective integrated solution runs on off-the-shelf hardware

Enables data-driven decision-making

Improve machine uptime, performance, and operational productivity

Prevent loss and increase the reliability of data

Integrate connectivity without disruption

The key success factor for any commercial IoT implementation is collecting data from equipment or devices and then transferring the collected data to a cloud server through a secure connection. Gadgeon has developed an IoT gateway – ‘thingway’ for commercial IoT implementation. ‘thingway’ is a cost-effective industrial IoT gateway design. The Gateway can be remotely maintained via remote firmware updates from the cloud.

The Gateway can collect data from devices in the field through wired (RS485/RS232) or wireless interfaces (WIFI, Zigbee). Devices could vary based on the exact use case. Still, some of the examples are generator sets, battery management systems, energy meters, HVAC etc. Gateway sends the data to the cloud platform using protocols like MQTT, REST API, CoAP.

thingway can collect data from Smart meters through Zigbee, RS232 or other interfaces and collect the data. The system can also collect demand response signals from the utility and control the power usage accordingly. The Gateway can connect to the internet using Ethernet, Wi-Fi or cellular interface.

Gadgeon is a new-gen technology consultancy and engineering services company enabling customer’s digital journey. Gadgeon is dedicated to building solid software systems that creates business value for enterprises. Our services include Product engineering, IoT Engineering, Embedded systems – hardware & Firmware, Enterprise application – integration & modernization, Full stack development, cloud & Mobile app development, data analytics with AI & ML, testing & automation, and Professional services. Gadgeon enables our customers to fully focus on high impact business transformation initiatives while the extended team from Gadgeon takes care of all engineering and operational activities.

Gadgeon in the last 10+ years partnered with over 70 customers with successful deployment of more than 170 projects across USA, Europe, and APAC. Over the years, we have been identified for quality and engineering excellence. We serve Enterprises, ISVs, Product companies, and fast growing startups across Digital Healthcare, Connected factories, Retail & E-Commerce, Communication, and Home & Building Automation domains.

Why Gadgeon as your Technology Partner? Domain expertise in Healthcare, Retail-E-commerce, Connected Manufacturing, Smart Home/ Building, and Communication Proven engineering and technology expertise in Enterprise software and Product development using the New-Gen technologies – Cloud, Mobile, AI & ML, Industrial IoT, CV, and AR Commitment to quality with ISO 9001:2015 and ISO 13485:2016 certifications.

Agile and DevOps – Adoption of Agile and CI/CD pipelines

Core engineering company with a culture of constant innovation with outstanding track record.

Flexible engagement models and willingness to invest in long term partnerships.

Delpheon – Gadgeon's Industrial IoT solution platform with pre-built, configurable, and scalable components for rapid and cost effective development and deployment of business use cases.

Embedded Services - End-to-end product engineering services with total ownership of hardware & firmware design, development, validation, and manufacturing support.

Vision

To be the most preferred end-to-end Technology Partner Globally

Mission

Create business value by making sense from connected world

Values

Engineering Excellence | Passion for Customer Success | Commitment to Employees | Integrity
Quality Policy

Gadgeon is committed to deliver excellence in solution development and design services. We focus on:

On time delivery of Innovative solutions and services within Budget and Agility by meeting all customer and regulatory requirements

Empowering employees to deliver quality solutions and services with passion

Continuous improvement in solution development and processes

Subsidiary Companies

Gadgeon Smart Systems has two wholly-owned subsidiary companies. They are Gadgeon Lifestyle and Gadgeon Medical Systems

Gadgeon Lifestyle

Gadgeon Lifestyle a 100% subsidiary of Gadgeon Smart Systems Private Limited, are specialists in the custom design, supply and installation of audio-visual, home automation and integrated electronic systems for the home. Home Automation services provides you access to control electronic devices in your home or office or any other buildings from a mobile or any internet accessible device from anywhere in the world.

For more details visit: www.gadgeonlifestyle.com

Gadgeon Lifestyle

webcardio

Gadgeon Medical Systems

Gadgeon Medical Systems Pvt. Ltd a fully owned subsidiary of Gadgeon Smart Systems Private Limited, with a vision to be the leader in engineering a healthier future where digitally enabled, personalized, predictive, preventive, and participatory healthcare helps people live healthier and

longer lives. The company's mission is to focus on commercializing innovative technologies to create clinical outcomes for the patients.

Our flagship healthcare platform – WebCardio is a connected care platform that is already transforming the way Ambulatory Cardiac monitoring is delivered and has become the new normal among the leading cardiologists and neurologists in hospitals across India and abroad.

For more details visit: www.webcardio.com

The Internet of Things (IoT) and Cloud computing are two technologies that revolutionized the digital computing world in recent years. IoT technologies working in conjunction with cloud computing have triggered numerous opportunities for enterprises, without them could have been difficult. These two technologies are tightly related to each other, hence separating one from the other has become challenging. Their combination has led to some of the most exciting and innovative developments in recent years.

The Internet of Things (IoT) has triggered the proliferation of sensors and smart devices resulting in the generation of large volumes of data. This has led to problems like storage, the need for faster computing power, and the ability to handle large volumes of data, etc. The users would like to access and leverage the data from anywhere using a variety of devices.

Cloud computing enables users to perform their computing tasks by leveraging services available over the internet. By using the cloud, organizations can access a vast array of computing resources on-demand, without having to invest in expensive hardware or software themselves. Over the years, the complimenting nature of these two technologies was recognized, leading to the development of innovative solutions and services. The combination of IoT and Cloud computing made it possible to use powerful processing of sensory data streams, leading to the realization of many business use cases. As an example, data from sensors and smart devices can be uploaded and saved using cloud computing. The goal of transforming data into insights is achieved in a very efficient and cost-effective way.

What is IoT and Cloud Computing?

What is a cloud? Cloud is a centralized system that facilitates the transfer and delivery of files and data over the internet. A centralized cloud system is very powerful with a rich pool of data and programs easily accessible from anywhere.

The internet of Things (IoT) refers to devices that are connected to the internet. In IoT, data is generated and stored in real-time along with large volumes of historical data. IoT enables tracking, remote monitoring, automation, analysis, and insight-driven decision-making.

How Cloud Computing complements the Internet of Things?

IoT and cloud computing work towards improving the efficiency of routine tasks. Leveraging cloud computing has many advantages like:

No advance planning and guesswork are needed regarding infrastructure capacity requirements.

Saves money with pricing models such as pay-per-use.

Quicker deployment anywhere in the world

Offers very flexible, faster resource availability to developers.

Cloud computing caters to the storage of large volumes of IoT data and easy access when and wherever needed. Cloud computing makes it easy to move the large volume of data generated by IoT devices which is used to identify patterns, optimize performance, and make informed decisions.

Benefits and Functions of Cloud computing in IoT:

Cloud computing provides multiple connectivity options in an IoT deployment, leading to large network access. Users can access cloud computing resources via mobile devices, tablets, laptops, smart watches, etc.

Another significant benefit of IoT and cloud computing is the ability to scale rapidly. As organizations add more IoT devices to their networks, they can quickly scale up their cloud computing resources to handle the increased data processing and storage requirements. This makes it easier for organizations to respond to changing business needs and accommodate growth.

Cloud computing enables collaboration and connections between users.

Cloud solutions provide extensive authentication and encryption services to enhance the security of data and applications.

A growing network of devices with IP addresses is needed for any IoT application.

A well-designed cloud architecture will ensure the reliability, security, economy, and performance optimization of IoT Solutions.

A well-designed CI/CD pipeline, structured services, and sandboxed environments will ensure a secure agile development required for IoT Software development.

Cloud computing is often used along with edge computing, for faster processing of data as certain business use cases may demand. Data processing at the network edge or edge computing is often used with IoT solutions to enable faster processing and higher response times. However, an approach based only on edge computing will not enable a complete view of the business operation.

Without a cloud solution, each factory or unit will be controlling its own units individually. This will limit the visibility of how these units work in relation to each other. Hence for a highly efficient and complete IoT deployment, a combination of edge and cloud computing is desirable.

Conclusions

Computational power, reliability, and connectivity of cloud computing will revolutionize the Internet of Things (IoT) based applications. The combination of IoT and the cloud will make many changes to mankind by better managing information. There is no doubt that by leveraging cloud computing, new opportunities will be opened for IoT Technologies. Overall, the combination of IoT and cloud computing has enormous potential to transform the way we live and work. As more organizations embrace these technologies and explore their possibilities, we

are likely to see a wave of innovation and development that will change the world in ways we can only imagine.

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