

IoT Engineering & Cloud Integration



Accelerating Connectivity, Insight, and Innovation

From Edge to Cloud – Intelligent Connectivity for a Connected World.

Sukra Infotek's IoT practice builds on our foundation in engineering simulation, cloud orchestration, and AI automation to deliver secure, scalable, and intelligent IoT ecosystems. We enable organizations to harness sensor data, edge analytics, and real-time insights to optimize operations, predict outcomes, and accelerate innovation.

Our expertise spans device-to-cloud data pipelines, real-time analytics, and digital twins, integrating embedded systems with AI-enabled cloud frameworks for seamless end-to-end intelligence.

Our Core Capabilities

Edge-to-Cloud Integration

- Design and deployment of secure data collection pipelines from sensors, PLCs, and IoT boards such as Raspberry Pi and ESP32, streaming directly into AWS or Azure environments.
 - Edge processing to filter and enrich data before cloud transmission, ensuring bandwidth efficiency and latency reduction.
 - API-based integration with ERP, MES, and analytics platforms for unified visibility.
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Intelligent Device & Data Management

- Configuration of IoT gateways, load balancers, and containerized microservices for distributed systems.
 - Centralized device management dashboards enabling provisioning, updates, and performance monitoring.
 - Role-based access control and real-time alerting for security and uptime assurance.
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Predictive Analytics & Digital Twins

- Deployment of AI models (LSTM, anomaly detection, reinforcement learning) to transform sensor data into actionable foresight.
- Integration of digital twin frameworks for virtual equipment replicas that continuously learn from real-world feedback.
- Predictive maintenance models delivering measurable ROI up to 50% reduction in unplanned downtime and 25% cost savings through proactive interventions.

Cloud-Native IoT Platform Engineering

- End-to-end architecture design, data ingestion, real-time analytics, visualization, and event-driven automation.
- Cloud-agnostic deployment on AWS IoT Core, Azure IoT Hub, or private Kubernetes clusters.
- High-availability frameworks with auto-scaling, container orchestration, and disaster-recovery readiness.

Industry-Specific Solutions

- Manufacturing & Energy: Smart asset monitoring, predictive maintenance, and energy-efficiency optimization.
- Transportation & Logistics: Adaptive fleet tracking, driver behavior analytics, and compliance monitoring.
- Smart Infrastructure: Environmental sensing, HVAC optimization, and building automation for sustainability.
- Healthcare & Life Sciences: Connected devices for telemetry, equipment utilization tracking, and IoMT analytics.

Connecting the physical and digital worlds with intelligence that scales.

Why Sukra for IoT

Full-Stack Expertise

Embedded, cloud, AI, and analytics teams working cohesively under one architecture.

Secure by Design

Firewalls, role-based access, encryption, and continuous monitoring integrated into every layer.

Scalable & Modular

Designed for global expansion—device fleets from hundreds to millions.

AI-Enhanced Insight

Machine learning models evolve continuously, refining predictions and response strategies

Proven Edge Collaborations

Through partnerships like Atlas IntelliTek and SimTestLab, we bring combined strengths in edge hardware, agentic orchestration, and AI-driven control loops.



The Sukra Advantage

Scalable by Design	Whether it's a proof-of-concept or a full enterprise rollout, Sukra systems grow with your business.
Strong Technical Backbone	Expert teams across full-stack, cloud, DevOps, data, and cybersecurity ensure reliable, high-performance systems.
Innovation & Stability Combined	We blend the agility of a startup with the reliability of a mature technology partner.
Trusted Partnerships	Strategic collaboration with Atlas IntelliTek (USA) and other domain-specific partners enhances our global delivery capability.

Partner with Sukra Infotek to build intelligent, connected ecosystems that bridge the edge and the cloud.



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Reach us to discover how Sukra's IoT solutions can power your next-generation smart operations.