



## Architecting Industrial IoT Edge Intelligence

Technotects is a **premier software technology** company specializing in strategy, design and implementation. With core skills ranging from real-time, mission-critical embedded control to developing and deploying Intelligent IIoT Edge solutions on leading cloud platforms, our **technology architects** can help businesses deliver better outcomes.



### NATIVE MOBILE WEB APPLICATIONS

Build, integrate and deploy application specific cloud and web functionality for controlling and monitoring products, via edge apps, mobile apps or web-based applications

- Cloud AND Edge based UI, Dashboards, Analytics and Alerts
- Native App Development on iOS & Android, Appcelerator, Xamarin
- App development platforms including Java, C++, Python, php, .NET, JavaScript ...
- MSSQL, Oracle, MySQL, Azure Insights, Mongo, Redis Enterprise, InfluxDB ...
- Web management with Kentico, Umbraco, Sitefinity



### INDUSTRIAL CLOUD DEVELOPMENT

Create innovative, security-focused end-to-end Industrial IoT solutions and deploy application logic as container-based IIoT Edge Modules on devices, utilizing compute power on the edge and in the cloud.

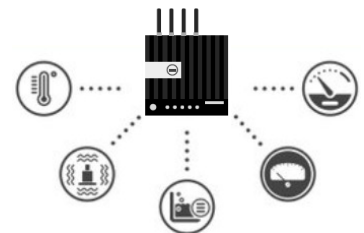
- Code-to-Cloud Secure Connectivity
- Azure, AWS, Google Cloud, Predix, Pulse IoT, EdgeX Foundry
- Custom logic & UI development
- Edge Docker Container Management



### INDUSTRIAL IOT EDGE INTELLIGENCE

Design and develop *Intelligent* Edge solutions to extract Industrial IOT value

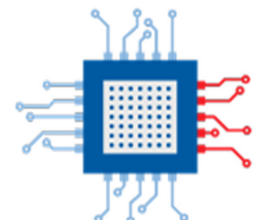
- Custom hardened IoT software stacks
- Edge-based ML and AI solutions
- Choice of Edge, PLC and Hybrid-Control hardware platforms
- Industrial sensor and I/O integration
- Any operating system (Linux, VxWorks, Win10, MacOS)
- Microservices written in Java, Javascript, Python, PHP, C++, etc.



### REALTIME EMBEDDED SYSTEMS

Program, update, and integrate embedded firmware and source code in microcontrollers and processors for industrial IoT devices, real-time controllers, edge devices etc.

- Mission-critical machine code development
- Languages: C#, C++, .Net, Java, VB, FBD, SFC, ST, LD...
- RTOS platforms include Linux, VxWorks, WinCE
- Device driver development
- BSP development
- Protocol stack development





## DIGITAL CONTENT TRANSFORMATION

Create high quality, industry standard, fully digital ePub content and applications suitable for web, mobile and tablet based devices. Supported technologies include HTML5, CSS3, MathML, JavaScript, metadata support and text-to-speech.



## SOFTWARE TESTING & QA SERVICES

As a complement to our custom software development services, our Pune, India (SCT) team provides expertise in (manual and automated) quality assurance testing for IIoT, Edge, web, desktop, mobile, embedded and cross-platform solutions. Functional, regression and stress testing methods are used to allow for consistent, repeatable validation under very high level simulated loads.



## SOFTWARE DEVELOPMENT AT SCALE

Focused and targeted software development team(s) are paired from Technotects US and Technotects (SCT) India, combining specialized expertise and complementary skills, who collaborate, innovate and produce consistently superior results with economies of scale.



## IIOT TECHNOLOGY PARTNERS

Our technology architects bring together innovative IoT technology providers focused on the advancement of industrial IoT applications to deploy scalable, differentiated solutions.



## CONTACT US



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