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## Internet of Things (IoT) applications covering industrial domain

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The Internet of Things(IoT) is driven by an expansion of the Internet through the inclusion of physical objects including industrial devices combined with an ability to provide smarter services to the environment as more data becomes available.

Various IoT applications covering industrial domainare already available. Successful deployment of these applications connecting devices, sensors and smart gateways calls for multiple protocols at various layers of networking stack (transport, network, link/phy), layers of application processing and other associated functions including security. The limited capability of devices and industrial nature of applications calls for special system design considerations to make end to end solutions work.

The system requirements of various industrial IOT applications are different. Appropriate hardware and software based system design is needed to meet industrial IoT system requirements including range, power, size, cost, performance, interoperability, security, etc. This presentation will cover fundamentals and some examples of system design approach to end to end industrial IoT solution.

## **Biography**

Dev Bhattacharya is currently Director of Hardware Engineering at Moog-Crossbow and leads the system and hardware development of complex IoTs and embedded systems based on various sensors and devices including wireless, inertial, magnetometers etc. Dev has a Master Degree of Science in computer and systems engineering from Rensselaer Polytechnic Institute and has successfully led and managed development of system architecture, system hardware, diagnostics & test software of complex embedded SOC and system products with sensors, networking, wireless and multi-media from concept to volume production at various companies including Cisco, Intel, Logitech and Rockwell Collins.

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