

IoT Product Development & Its Applications



METI M2M India Pvt Ltd started in the year 2012 with an unflinching focus to empower Indian industries with Industry 4.0 solution that gives a competitive edge.

Over the past six years, by serving more than 100+ clients, our team has gained experience and expertise to develop and deploy Industry 4.0 solutions. This makes our solution reliable and easy to adapt.

With effective consultation and requirement analysis we offer the right Industry 4.0 hardware and analytics platform that is aimed at increasing the efficiency of the industries.



**6+ years
in IoT**



**100 +
Client**



**40,000 +
Sensors**



**15+M Daily
Tag Values**

What we Do?

We make Industries increase shop-floor efficiency dramatically.

We do this by offering Industry 4.0 solutions as a go-to-tool for managers to remotely monitor shop floor and to make data decision towards operational excellence.

We help you reduce manual work and, Implement Industry 4.0 for

Smart management

Easy to use dashboard to help you manage shop-floor remotely.

Smart decisions

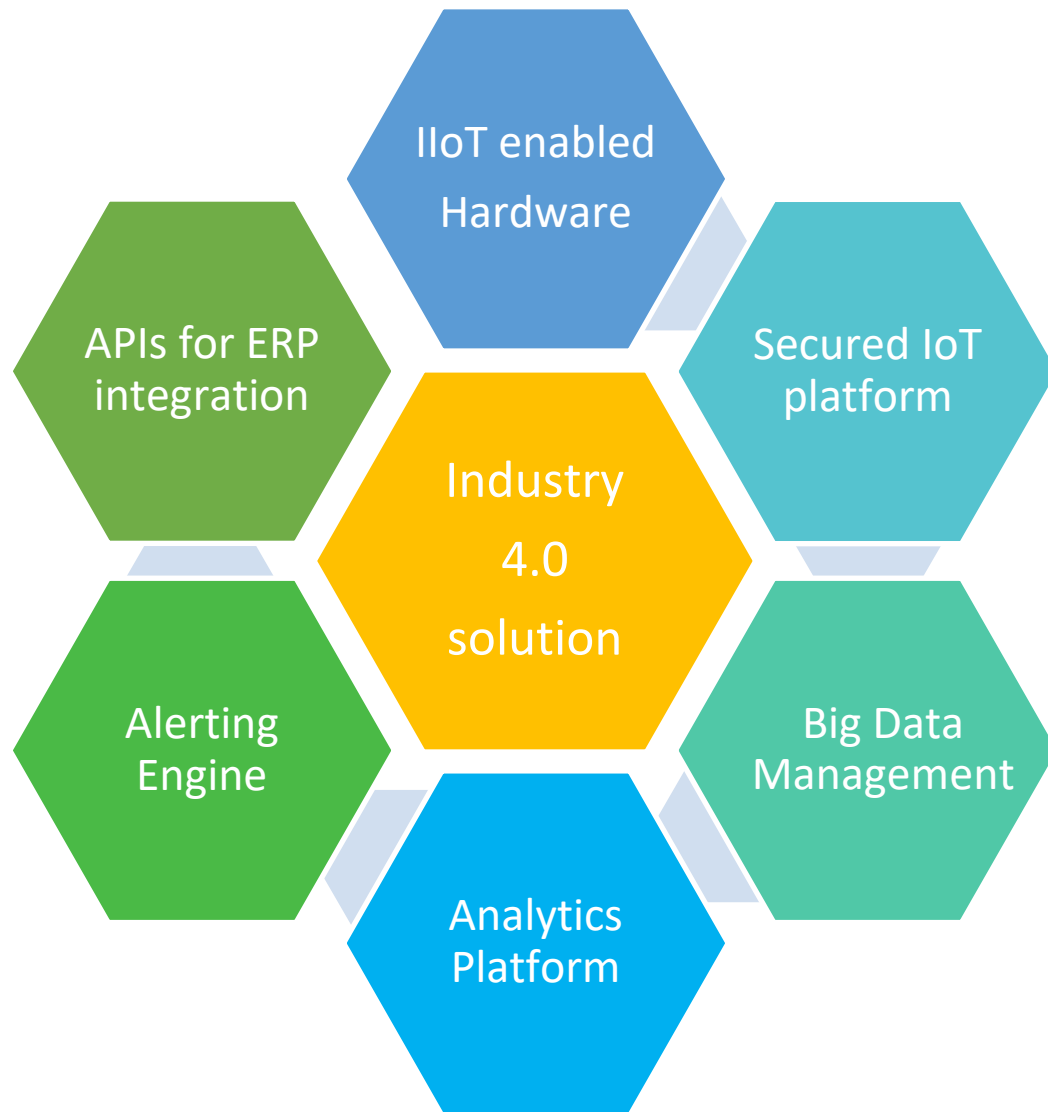
Have your decisions supported by real-time data to boost efficiency.

Smart maintenance

Alerts to help you predict machine and tool failure.

Process optimization

You will get live graphs and reports to optimize process



All our hardware works agnostically without voiding the warranty of any machines.

Core Competency



- With Overwhelming response and high demand from engineering students ,we bring you the best experience for IoT product development and its applications.
- This program includes 3 courses
 - IoT development beginner
 - IoT development intermediate
 - IoT development Combined

Overview

- Learn from Industry Experts
- Get Internship certified from METI M2M INDIA PVT LTD
- Get theory as well as development tool access
- Get Assignments and projects
- Get Online support
- 6 to 8 Hours a week
- Duration :- 4 weeks

- Basic electronics component overview
- Product development process
- Introduction to IoT architectural design
- Introduction to Hardware design and component selection
- Introduction to Circuit design
- Introduction to PCB design
- Hands-on on Kicad PCB design software
- Introduction to firmware development
- Manufacturing process overview
- Introduction to industrial shop floor process

- Basic Microcontroller and Microprocessor Overview
- Introduction to General purpose input and output and demo programs.
- Introduction to Timer and pulse width modulation technique
- Introduction to EEPROM
- Introduction Analog to digital converter
- Introduction to SPIFFS Filesystem of microprocessor
- Introduction to UART protocol
- Introduction to I2C protocol
- Introduction to IoT standard MQTT protocol
- Introduction to industrial standard modbus protocol
- IoT hardware webserver development
- Alexa integration with IoT hardware
- Thingspeak and Adafruit IoT examples
- WiFi protocol theory and programming examples

- This course includes both IoT development beginner and IoT development intermediate.
- All the concept mentioned in IoT development beginner and IoT development intermediate are included here.
- Student can able to learn both hardware and firmware development with kits provided.

“We at METI foster Industry 4.0 implementation to effective implementation.”

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