

**Industry 4.0**

**IoT Cloud Platform**

we provide turnkey solutions to meet the increasing digitization requirements, driven by industry 4.0

Easy to install,  
commission & hosting,  
Plug & Play interface

- Machine Monitoring
- Production Monitoring
- OEE Monitoring
- Instant Alerts
- Advanced Analytics
- Access Management

- Dynamic Live Dashboards
- Highly scalable
- On premises/Cloud based
- Remote control
- Database management
- Security

Support for Direct communication with just ethernet cable!

**FANUC SIEMENS**

**DELTA OMRON**

**TURCK MTAB**

**ADTECH OPC UA**

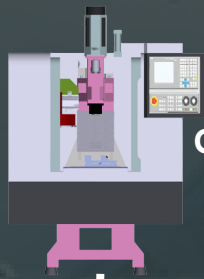
Machine Monitoring Made Easy  
Supports all types of CNC/Automation machines

### Turnkey solution

- Hardware supply
- Cloud hosting
- Installation
- Commissioning
- Maintenance

& Many more 300+ drivers are available!

## How solution works



CNC/PLC/Sensors/Utilities



Ethernet/OPC/Modbus  
etc.,



IIOT-Gateway

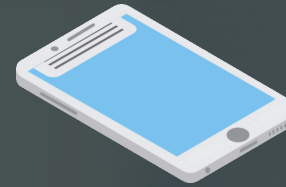


Ethernet/wifi



Onpremise/Cloud based

## Monitoring screen



Access the application through  
web browser

## Connect Accessories



Energy Meter/HMI/  
Vibration/Temperature/Load  
sensors

## IIOT Gateway

- Edge IIOT gateway
- Code-free configuration
- Edge Analytics
- Easily configurable
- Supports multiple protocols  
OPC,Modbus,MTconnect etc.,

## Access control

- Operator
- Supervisor
- Manager
- Administrator

## Projects completed

- Smart Factory system
- Modular Automation Plant  
System (MAPS)
- Warehouse Automation
- CNC machines - Fanuc,  
Siemens, Adtech etc.,

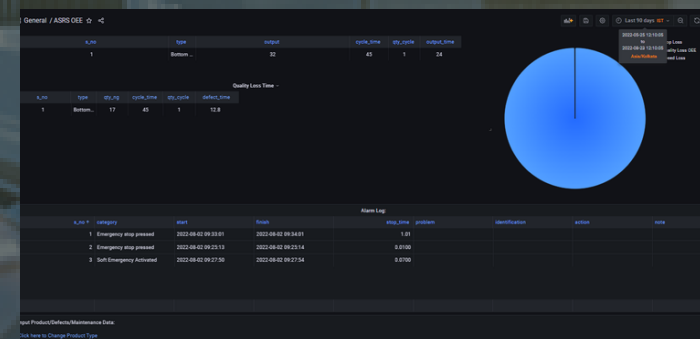
## Industry 4.0 Training

IoT Certification Course is tailored  
by industry experts. This course  
will have real life demo and case  
studies which will help you master  
the IoT technology.

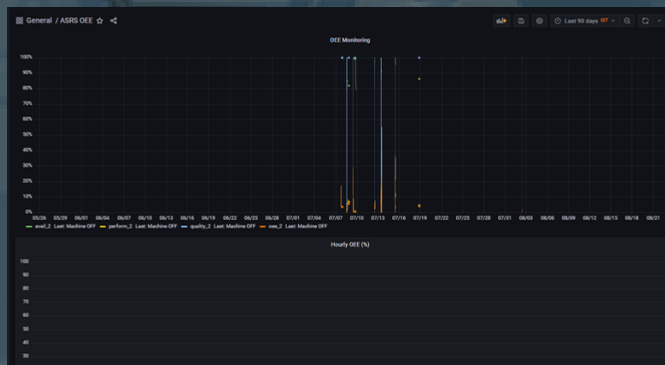
## Clients

MTAB, MTC, NIT-AP, TNPL, AL-  
Ameen, Kongunadu, various  
engineering colleges.

## Alarm Monitoring



## Plant Monitoring





## Industry 4.0 - IoT Training

### About

IoT Certification Course is tailored by industry experts.

You will learn to develop IoT Solutions using sensors and components integration. By the end of this training, you will learn the roles, responsibilities of an IoT Developer and be ready for implementation.

### Objectives

- Understanding the basics of IIoT
- Configuring IIoT Gateway
- Configuring devices such as CNC, PLC, Sensors
- Understanding communication local & cloud connectivity
- Setting up Asset/Machine connectivity
- Data acquisition and storage in Database
- Edge computing and data analytics
- Basics of UI development, visualise the data points

### Course Duration

120hours

### Topics Covered

- Introduction to Internet of Things
- Industrial communication protocols- Modbus, Profinet, Fins, TCP/IP, OPC UA/DA, MTconnect
- Configuring IoT gateway
- Configuring Assets - Machine, PLC, Sensors
- Connecting Assets with IoT gateway
- SQL Database installation and configuration
- Introduction SQL queries (CRUD)
- Data acquisition and storage in database
- Connecting gateway with database
- Data Sampling and Visualisation
- Introduction to Dashboard
- Creating widgets - Graphs, Tables, Charts, Dials, Display etc.,
- Creating Database queries
- Read and update data points from database
- Visualisation of Datapoints in Live dashboard

### Tools Used

- Node Red
- IIoT edge gateway
- Database-Postgresql
- IIoT-Cloud
- Any CNC/PLC devices

### Hands on Project

- Live Monitoring of Assets/Machine health status
- Alarm Event Monitoring
- Production Monitoring
- OEE Monitoring

