

# Modern Industrial Process Development Based on IoT technology



Module 1 – 16/09

Module 2 – 21/09

Module 3 – 23/09

## Life Long Learning Trainings



### Topics

Module 1	Sensor Network for Intelligent Predictive Enterprise and cybersecurity
Module 2	MangroviaIoT - An Asset Management and Operational Intelligence Platform
Module 3	Predictive maintenance models and python AI approach to machine learning

### Prerequisites

- ✓ *basic concepts of mathematics and geometry*
- ✓ *basics concepts of object-oriented programming*
- ✓ *own a google account.*
- ✓ *registration on <https://malignani-iot.eventbrite.it>*



**Participation is free - Trainings are on line**

**TALENT JOURNEY**

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## Module 1



16/09/2021



14:30 to 18:30 (CET)

### Sustainability Sensor Network for Intelligent Predictive Enterprise and cybersecurity

Maintenance is a key area that can drive major cost savings and production value around the world, but foundry and casting industry with its predominantly medium-sized structure is characterized by a low degree of automation, due to the very long service life of machines.

Machine down time have two big consequences within foundry process:

- Energy waste: energy consumption is not adjustable during process interruption.
- Decrease of productivity level (OEE - Overall Equipment Effectiveness) and increase of process instability.



**Andrea Ravasio**, *HW and FW Engineer at FAE Technology*

**Manuel Lobati**, *Innovation & Project Manager, PMP® at FAE Technology*

**Matteo Giaconia**, *Senior System Engineer*

## Module 2



21/09/2021



14:30 to 18:30 (CET)

### MangroviaIoT - An Asset Management and Operational Intelligence Platform

An IoT Smart Monitoring infrastructure consisting of an industrial-grade wireless sensor network solution plus an IoT gateway with multiple connectivity options and meeting state-of-the-art cybersecurity requirements.



**Leonardo Belotti**, *Junior Data Analyst*

## Module 3



23/09/2021



14:30 to 18:30 (CET)

### Predictive maintenance models and python AI approach to machine learning

An artificial intelligence-based decision support system that collects machine process data (temperature, engine vibration and other media) from the sensor network and then predicts maintenance of specific key processes.



**Sebastian Daberdaku**, *Expert Data Scientist*

## For further information please contact:



**ISIS A. Malignani**

For information on trainings please write to [webmaster@malignani.ud.it](mailto:webmaster@malignani.ud.it)



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