

IoT – Internet of Things

 Duration: 5 Days

 Available Languages: English

Audience

Software Developers that want to get started with IoT.

Precondition

Knowledge of at least one of: C, Python.

Goals

Be able to perform basic IoT projects.

Contents

- Introduction
 - Overview of IoT
 - Solution approaches using IoT
 - Protocols
- Embedded Systems
 - Cross compilation toolchains
 - Build system creation
 - Developing firmware drivers
 - Developing interfaces
 - Testing firmware drivers
- Sensors
 - Power supply to sensors
 - Output data formats of sensors
- Sensors Data Collection
 - Wired interface
 - Analog interface
 - Digital interface
 - Wireless interface
 - Ad Hoc Network
 - Wi-Fi direct
 - Mesh network
- Embedded protocols
 - USART
 - I²C
 - SPI
 - CAN

- Wireless technologies
 - GSM / GPRS
 - Wi-Fi
 - BLE
 - XBee
- IoT protocols
 - CoAP
 - MQTT
 - WebSockets
- Databases
 - MongoDB
 - SQL
- Demo projects
 - Weather monitoring system
 - Controlling devices using cloud

Booking

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