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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