Cloud Robotics and Advanced IoT Architecture – Level 3

Duration: 2 Days

DESCRIPTION

This is an advanced course for IoT and bears the content which is required by IoT Solution Developers and Architects to implement their projects. The knowledge of various IoT platforms and their comparison is discussed during the training. An in-depth understanding of IoT stack and all individual layers would be explained here. There would be lots of hands-on labs with different cloud based IoT platforms like Azure and AWS. IoT solutions are incomplete without the data being processed so there would be sessions which gives understanding of the data processing flow and concerned services to be used. In addition to all, this course also throws some light on IoT gateways. The functioning and architecture of various IoT gateways in the market would be discussed.

OBJECTIVES

- To learn about different IoT platforms and their comparison available in the industry

- To implement cloud based IoT hubs and link new / existing devices with hands-on

- To learn integration of various Azure and AWS services for implementing IoT solutions with hands-on

- To learn about IoT stack and their layers

- To learn about architecture and functioning of various IoT gateways available in industry

COURSE OUTLINE

Day 1

→ Serial Communication

→ IoT Platforms

→ Microsoft Azure IoT Hub

Day 2

→ AWS IoT Hub

→ IBM Watson

→ IoT Gateways and On-premise Services

→ IoT Layer Model

→ Comparison with OSI Model

WHO SHOULD ATTEND

- Software Developers aspiring to code IoT programs

- IT Professionals engaging in IoT projects

- Mechanical / Electrical Engineers / Students looking out to automate, monitor or remote control equipments

- Any individual who needs brief idea on the concept for product development or career enhancement

PREREQUISITES

- Completion of 'Fundamentals of IoT – L1' course
- Completion of 'Working with Electronics in IoT – L2' course
- Completion of 'Programming Fundamentals for IoT' course (for attendees who doesn't have any background with programming languages)

TRAINING CALENDAR

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