



Working with Electronics in IoT - Level 2

Duration: 2 Days

DESCRIPTION

The primary focus of this course is to build skills necessary for managing the electronics components which are vital components of any IoT gadget or solution. Attendees would learn the ABC of all core electronics components like resistors, TRIAC, capacitors etc. The major advantage of this course lies in its hands on labs which are carefully designed to implant the ability to solder circuits and components on PCBs, configure different kinds of motors depending on use cases and also play with bio-metrics. This two-day course will leave the attendees with actual skills needed for building up their own ideas and make prototypes in future. Last but not the least, attendees would also learn about the architecture of sensor networks and actually build one. Sensor networks are vital for any complex IoT solution in real world.

OBJECTIVES

- To learn the working and importance of individual components like resistors, capacitors, TRIAC, solenoids
- To learn the process of using soldering iron, multimeter and other diagnostic equipment with hands-on
- To design a PCB layout and solder components for making the base of any gadget
- To configure fingerprint scanner to setup biometrics in any security solution
- To configure stepper, servo, coreless and geared DC motors using Arduino and motor drivers
- To learn the implementation of Sensor networks with hands-on

COURSE OUTLINE

Day 1

- Fundamentals of Electronics
- Electronic Components and their applications
- Understanding Interfacing Pins on Dev Boards
- Operational Tools

Day 2

- Access Control, Human Activity Detection and Object Positioning
- Making Wireless sensor network using nRF24L01
- Working with motors

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

TRAINING CALENDAR

Subscribe to our Training Calendar & get a Cash Back of INR 1,000/- (One Thousand INR).

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TESTIMONIALS

“ I am new to this technology, but I have understood the basics of Cloud Computing in Level 1 training session and would like to continue with Level 2 and Level 3. The trainer has immense knowledge of the product.

- Brahmanandam (Team Lead, Aditya Birla Minacs)

“ It is a good introductory training on Cloud Computing and a nice refresher even for those who are working in this domain. The trainer has good overall knowledge of Cloud industry and evolution of this business. This helps in covering the breadth of topics easily.

- Nagarajan Ramachandran (IBM)

“ Trainer was well organized in terms of what he planned to cover. The whole training was very well structured and paced to take the students through the fundamentals. He has very good knowledge of the subject.

- Bhupesh Jadhav (Intuit)

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