

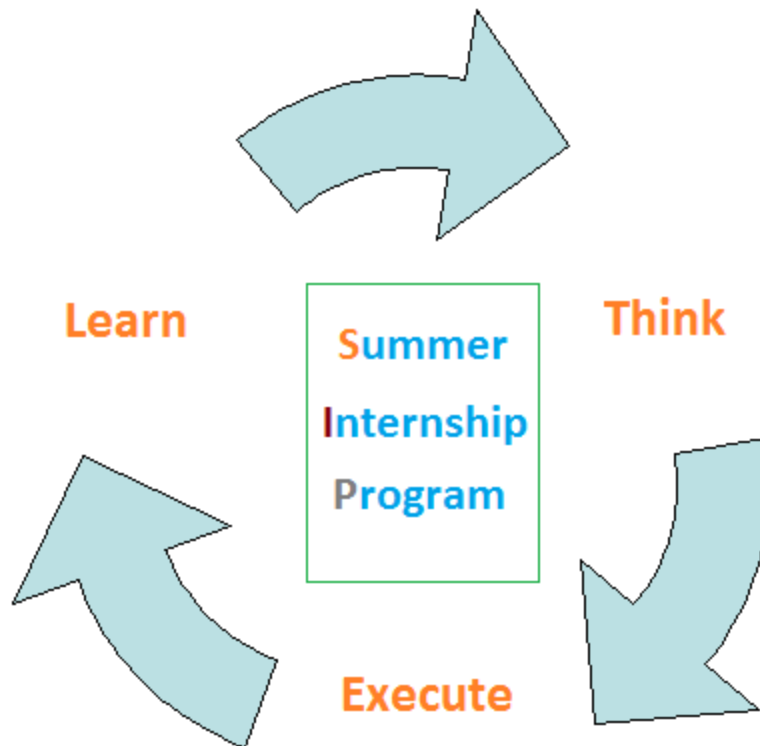


Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Embedded Systems + Arduino



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Practical & Professional Training on Arduino

Course Syllabus

Module 1

- 1.1 Introduction to Embedded System with Arduino
- 1.2 Scope of Arduino in Embedded Systems

Module 2

- 2.1 Introduction to Arduino series
- 2.2 Hardware architecture of Arduino controller Series
- 2.3 Controller I/O ports

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2.4 Memories of controller

2.5 Concept of Serial communication ,Interrupt etc.

Module 3

3.1 Introduction of Embedded Arduino Software

3.2 Introduction of Embedded C Programming and programming concepts for Arduino

3.3 Introduction of program flashing and error correction

Module 4

4.1 I/O interfacing concept

4.2 Led Blinking logic and delay generation routine

Module 5

5.1 Character LCD 16x2 interfacing logic and concept

5.2 Introduction of LCD command and data signals

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5.3 LCD based programming

5.4 Practical project based on character LCD

Module 6

6.1 Matrix keypad interfacing logic and concept

6.2 Introduction of key pad interfacing using polling method

6.3 Matrix keypad programming

6.4 Practical project based on matrix keypad

Module 7

7.1 Introduction to serial communication

7.2 Serial communication concept

7.3 Introduction of serial communication firmware and registers

7.4 Serial communication programming

7.5 Practical application based on Serial communication

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Module 8

8.1 Introduction of interrupts in controller

8.2 Interrupt logic and concept

8.3 Interrupt routines / programming

8.4 Key interfacing using interrupt

8.5 Practical application based on interrupt

Module 9

9.1 Introduction of ADC

9.2 ADC interfacing

9.3 ADC programming

Module 10

10.1 Introduction of DTMF mobile technology

10.2 DTMF technology interfacing in real application

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10.3 DTMF programming

10.4 Practical project design based on DTMF technology with Arduino

Module 11

11.1 Introduction to RF & RFID communication

11.2 RFID technology interfacing in real application

11.3 RFID module programming

11.4 Practical project design based on RFID technology with Arduino

Module 12

12.1 Introduction of I2C Protocol

12.2 I2C protocol interfacing in real application

12.3 I2C module programming

12.4 Practical project design based on I2C protocol with Arduino

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Module 13

Practical designing of a project based on above technology with Arduino

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Our Previous workshops



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