

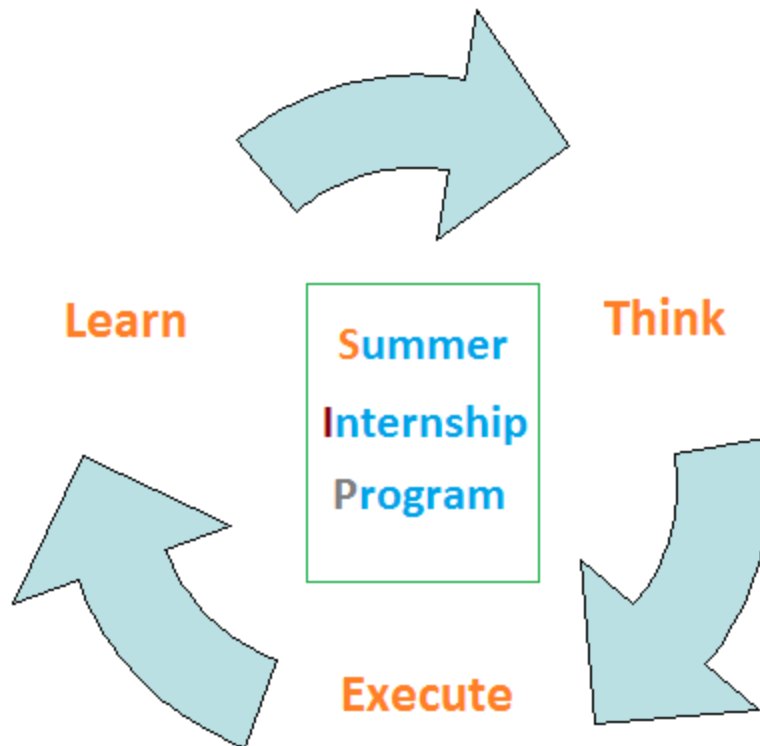


Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

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Embedded Systems + ARM7



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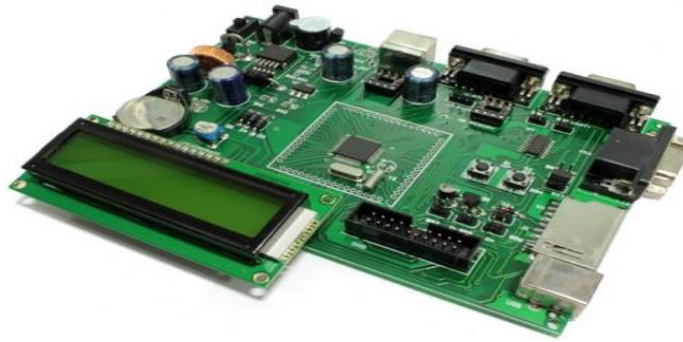
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Practical & Professional Training on ARM7 Processor

Course Syllabus

Module 1

- 1.1 Introduction to embedded system and ARM Processor
- 1.2 Scope in Embedded Systems
- 1.3 ARM processor family
- 1.4 Application of ARM Processor
- 1.5 Compiler
- 1.6 Difference between RISC & CISC

Module 2

- 2.1 Hardware architecture of controller
- 2.2 Controller I/O ports

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- 2.3 Memories of controller
- 2.4 Registers and Register bank of controller
- 2.5 Concept of Serial communication ,Interrupt etc.

Module 3

- 3.1 Introduction of Embedded Software
- 3.2 Introduction of Embedded C Programming and programming concepts
- 3.3 Introduction of program burning / flashing software

Module 4

- 4.1 PLL - Concept to increase speed of operation of any application
- 4.2 External Interrupt input – To handle asynchronous event
- 4.3 Application design using above concept

Module 5

- 5.1 Pin connect block
- 5.2 I/O interfacing concept
- 5.3 Led Blinking logic and delay generation routine
- 5.4 Buzzer interfacing
- 5.5 Key interfacing
- 5.6 Design of Traffic Light Controller System

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Module 6

- 6.1 Character LCD 16x2 interfacing logic and concept
- 6.2 Introduction of LCD command and data signals
- 6.3 LCD based programming
- 6.4 Practical project based on character LCD

Module 7

- 7.1 Matrix keypad interfacing logic and concept
- 7.2 Introduction of key pad interfacing using polling method
- 7.3 Matrix keypad programming
- 7.4 Practical project based on matrix keypad

Module 8

- 8.1 Motor driver interfacing concept
- 8.2 Motor driver operation
- 8.3 Motor driver based application / project designing

Module 9

- 9.1 Introduction to serial communication
- 9.2 Serial communication concept
- 9.3 Introduction of serial communication firmware and registers

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9.4 Serial communication programming

9.5 Practical application based on Serial communication

Module 10

10.1 Introduction of ADC

10.2 ADC interfacing

10.3 ADC programming

Module 11

11.1 Introduction of DTMF mobile technology

11.2 DTMF technology interfacing in real application

11.3 DTMF programming

11.4 Practical project design based on DTMF technology

Module 12

12.1 Introduction of Bluetooth Communication

12.2 Bluetooth technology interfacing in real application

12.3 Bluetooth module programming

12.4 Practical project design based on Bluetooth technology

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Module 13

- 13.1 Introduction to RFID communication
- 13.2 RFID technology interfacing in real application
- 13.3 RFID module programming
- 13.4 Practical project design based on RFID technology

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Our Previous workshops



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