



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

3 Times IIT Bombay Robo Competition Winner

Government of India (MSME) &

ISO 9001 – 2015 Certified Organization

Winter Internship Program-2017

ARM7 with 8 Projects Designing

MSME

MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

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**We Guarantee You that, You Can able to Develop Your Projects by
Your Own After This Training Program**

Contact : 8828222688 / 8080097128
Email : embeddedtechnosolutions@gmail.com
Website : www.embeddedtechnosolutions.com
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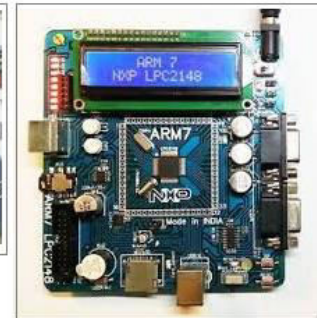
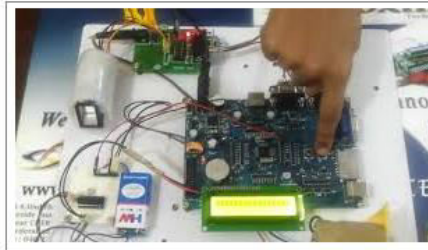
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Get the experience of learning with IIT Bombay & VJTI

Alumni with Internship Certificate



**ARM7 with
8 Projects Designing**



Practical & Professional Training on ARM7 Processor

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

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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

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9.1 Introduction to serial communication

9.2 Serial communication concept

9.3 Introduction of serial communication firmware and registers

9.4 Serial communication programming

9.5 Practical application based on Serial communication

Module 10

10.1 Introduction of DTMF mobile technology

10.2 DTMF technology interfacing in real application

10.3 DTMF programming

10.4 Practical project design based on DTMF technology

Module 11

11.1 Introduction of Bluetooth Communication

11.2 Bluetooth technology interfacing in real application

11.3 Bluetooth module programming

11.4 Practical project design based on Bluetooth technology

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Module 12

- 12.1 Introduction to RFID communication
- 12.2 RFID technology interfacing in real application
- 12.3 RFID module programming
- 12.4 Practical project design based on RFID technology

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ARM7 with 8 Projects

1. Traffic Light System
2. Door Bell
3. Password Protecting System
4. Notice Board
5. PC Control Appliances
6. Bluetooth Based Home Automation
7. DTMF Based Universal System
8. RFID Protocol Based Security System

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