



Embedded Technosolutions

Venture of IIT Bombay & VJTI Alumni

Embedded Systems | Software | Mechanical | Automation

Trainings & Jobs

100% Placement Assistance

Contact : 8828222688 / 9224301650

www.embeddedtechnosolutions.com



Embedded Arduino

We Are India's one of the Leading Trainings & Jobs Providing Organization



Skill India Mission

कौशल भारत - कुशल भारत

Government of India Registered & ISO Certified Organization



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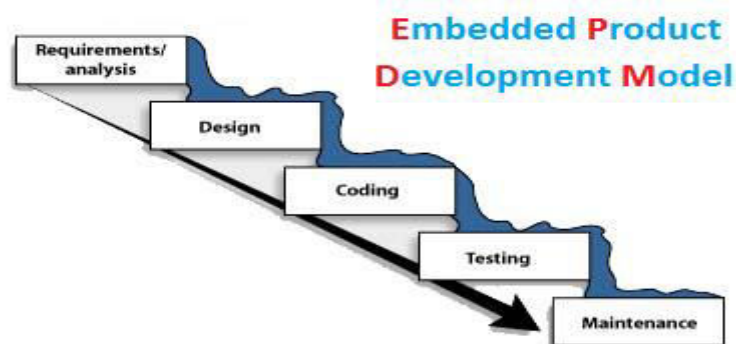
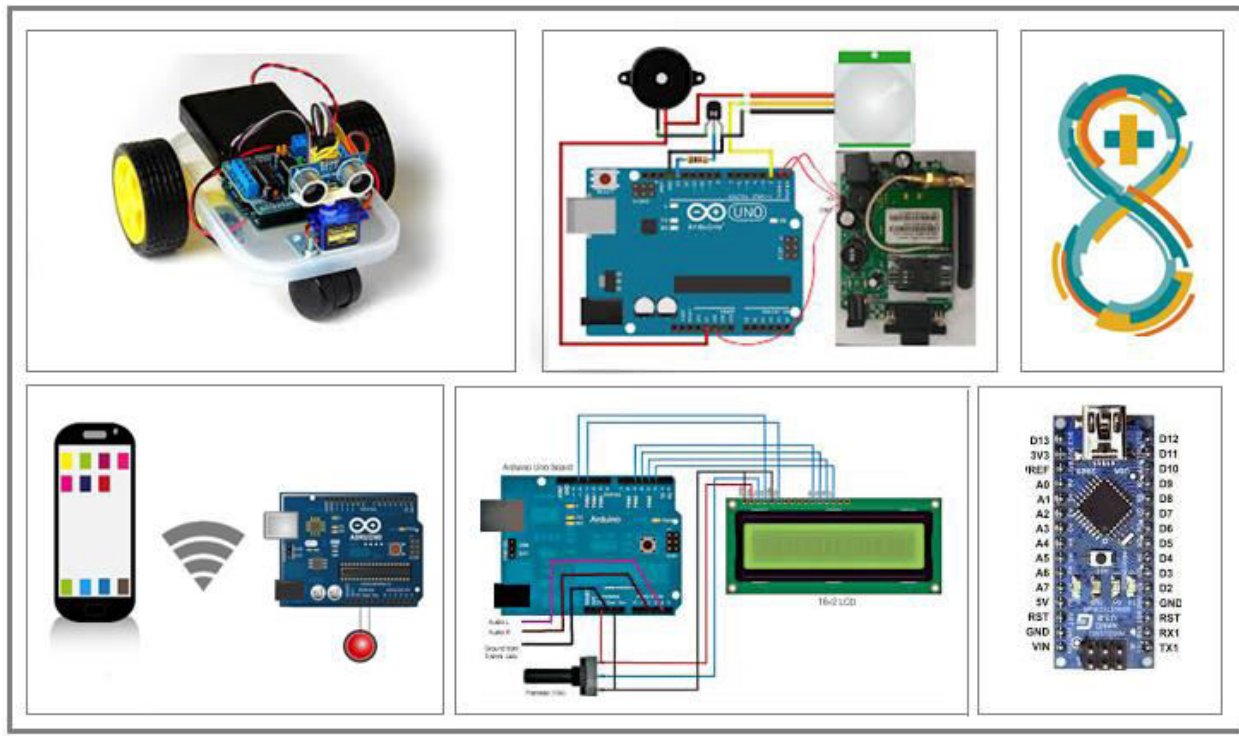
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Embedded Technosolutions is a Professional Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical, based on industrial standard.



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Course Objectives

1. To provide professional and industrial standard training which will help the students to get job in the core industries
2. To learn practical orientation of actual industrial product design
3. To learn Embedded Systems which is the important part of Embedded Product Development
4. To learn Embedded C Programming which is the important part of Embedded Product Development
5. To learn Programming of Internal Peripherals in Embedded C
6. To learn Arduino Architecture in detail
7. To learn Hardware Requirements for Arduino
8. To learn the designing of Real World Projects



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Course Syllabus

Module 1

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

Module 2

- Introduction to Arduino series
- Hardware architecture of Arduino controller Series
- Controller I/O ports
- Memories of controller
- Concept of Serial communication ,Interrupt etc.



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Module 3

- Introduction of Embedded Arduino Software
- Introduction of Embedded C Programming and programming concepts for Arduino
- Introduction of program flashing and error correction

Module 4

- I/O interfacing concept
- Led Blinking logic and delay generation routine

Module 5

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



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Module 6

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

Module 7

- Introduction to serial communication
- Serial communication concept
- Introduction of serial communication firmware and registers
- Serial communication programming
- Practical application based on Serial communication



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Module 8

- Introduction of interrupts in controller
- Interrupt logic and concept
- Interrupt routines / programming
- Key interfacing using interrupt
- Practical application based on interrupt

Module 9

- Introduction of ADC
- ADC interfacing
- ADC programming



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Module 10

- Introduction of DTMF mobile technology
- DTMF technology interfacing in real application
- DTMF programming
- Practical project design based on DTMF technology with Arduino

Module 11

- Practical designing of a project based on above technology with Arduino



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