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Industrial Certified Robotics Automation Training

Government of India (MSME) & IIT Bombay Alumni Recognized





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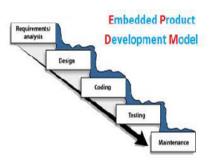




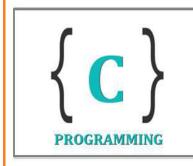


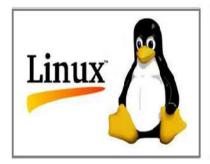
















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Who We Are?

Embedded Technosolutions is a Professional & Corporate 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 standards





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Till Now We Worked for the following Industries

- Crompton Greaves Ltd, Mumbai
- Laboratory Corporation of America, LabCorp, Burlington, NC USA
- Netfinity, India
- Continental Grain Corporation
- Brook Furniture Rental, Chicago, IL
- ITA, Banglore
- RAK Ceramics, Mumbai
- Nvidia, Pune
- ARORA, Mumbai
- RED Cell, Mumbai
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Chapter 1: Introduction to ARM Processor in robotics automation

- 1.1 Introduction to robotics system and ARM Processor
- 1.2 ARM processor family
- 1.3 Application of ARM Processor in robotics
- 1.4 Compiler
- 1.5 Difference between RISC & CISC

Chapter 2: LPC2148 Microprocessor Pin details, Memory

- 2.1 LPC2148 ARM7 microprocessor
- 2.2 Features of LPC2148
- 2.3 Block diagram of LPC2148
- 2.4 Pin diagram of LPC2148



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- 2.5 Architectural overview
- 2.6 On-chip flash program memory
- 2.7 On-chip static RAM

Chapter 3: Keil IDE

- 3.1 Introduction to Keil IDE
- 3.2 Creating project with Keil
- 3.3 Debugging

Chapter 4: Hardware Interface

- 4.1 Minimum system requirements for LPC2148
- 4.2 Hardware interfacing details

Chapter 5: System Control

- 5.1 PLL
- 5.2 External Interrupt input
- 5.3 Power Control, VPB





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Chapter 6: Pin Connect block ,GPIO

6.1 Pin Connect Block

6.2 General Purpose I/O:

LED and switches interfacing

Buzzer

DC Motor

<u>Chapter 7</u>: Timer, ADC, UART

7.1 Timer

7.2 10-bit ADC

7.3 UART: Features, Serial Communication



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Basic Robotics Automation

Chapter 1

- 1.1 Introduction to Robotics Automation
- 1.2 Scope in Robotics Automation

- 2.1 Introduction to microcontroller 8051 series
- 2.2 Hardware architecture of controller
- 2.3 Controller I/O ports
- 2.4 Memories of controller
- 2.5 Registers and Register bank of controller
- 2.6 Concept of Serial communication, Interrupt etc.



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Chapter 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

Chapter 4

- 4.1 I/O interfacing concept
- 4.2 Led Blinking logic and delay generation routine
- 4.3 Design of Traffic Light Controller System

- 5.1 Introduction to serial communication
- 5.2 Serial communication concept
- 5.3 Introduction of serial communication firmware and registers
- 5.4 Serial communication programming



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5.5 Practical application based on Serial communication

- 6.1 Introduction of Relay
- 6.2 Relay interfacing and comparison of relay with other switching devices
- 6.3 Relay programming
- 6.4 Practical application based on relay



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IOT Robotics using Raspberry Pi & Linux Platform

Chapter 1

- 1.1 Program Raspberry Pi: a credit-card sized computer
- 1.2 Python programming for Raspberry Pi
- 1.3 Interacting and configuring the RPi OS
- 1.4 ARM 11 architecture
- 1.5 Porting of Linux Kernel and booting RPi

Chapter 2

2.1 Linux programming basics

Chapter 3

- 3.1 Programming the GPIO and interfacing peripherals With Raspberry Pi
- 3.2 Generating PWM signals through the Pi

- 4.1 Programming and work with UART protocol
- 4.2 Remote Login methods: HyperTerminal, Ethernet



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Chapter 5

5.1 Work with I2C protocol

Chapter 6

6.1 Developing GUI with TKinter

Wireless Technology Oriented Robotics

- 1.1 Introduction of DTMF mobile technology in robotics designing
- 1.2 DTMF technology interfacing in real application
- 1.3 DTMF programming
- 1.4 Practical robotics project design based on DTMF technology



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Chapter 2

- 2.1 Introduction of RF Communication in robotics designing
- 2.2 RF technology interfacing in real application
- 2.3 RF module programming
- 2.4 Practical robotics project design based on RF technology

Chapter 3

- 3.1 Introduction to RFID communication in robotics designing
- 3.2 RFID technology interfacing in real application
- 3.3 RFID module programming
- 3.4 Practical robotics project design based on RFID technology

- 4.1 Introduction to GSM communication robotics
- 4.2 GSM technology interfacing in real application



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- 4.3 GSM module programming
- 4.4 Practical project design based on GSM technology

Chapter 5

- 5.1 Introduction to Bluetooth communication robotics
- 5.2 Bluetooth technology interfacing in real application
- 5.3 Bluetooth module programming
- 5.4 Practical project design based on Bluetooth technology

Android Voice Robotics

- 5.1 Introduction to Android communication
- 5.2 Android technology interfacing in real application
- 5.3 Voice robot module programming
- 5.4 Practical project design based on android voice robot



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Design of Robotics ARM

Chapter 1

- 1.1 Introduction to Robotic ARM
- 1.2 Robotic ARM in real application
- 1.3 Robotic ARM module programming
- 1.4 Practical project design based on Robotic ARM

Robotics Programming

Chapter 1: Introduction to C

- 1.1 Special features of c
- 1.2 C compilation process with GCC under Linux
- 1.3 C identifiers, variables, keywords and constants
- 1.4 C data types

Chapter 2: Instructions

2.1 Operators



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- 2.2 Decision control instructions
- 2.3 Loop control instructions

Chapter 3: Functions

- 3.1 Library functions
- 3.2 User defined functions
- 3.3 Function declaration and definition
- 3.4 Passing arguments by value and by address
- 3.5 Storage classes
- 3.6 Preprocessors

Chapter 4: Arrays and strings

- 4.1 Array declaration and initialization
- 4.2 Passing arrays to functions
- 4.3 Initialization of strings
- 4.4 String library functions



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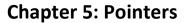
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5.1 Pointer basics

5.2 Passing arguments by address

5.3 NULL pointers



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Placement Policy

- As we are working for industries for their product development,R&D ,Customization & Manufacturing we get direct recruitment related notification from that companies whenever there is the recruitment in the that companies.
- Also other companies in the market they also call us regarding recruitment process.

These entire JOB related notifications we exclusively provide to our students and they can apply in that companies directly. We upload the password protected job notifications on our website, students can access that job notifications from our website with password.