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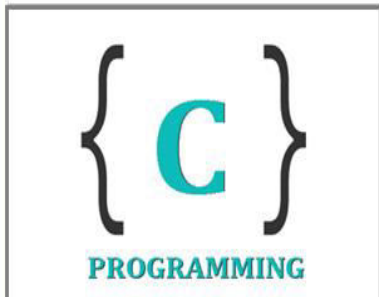
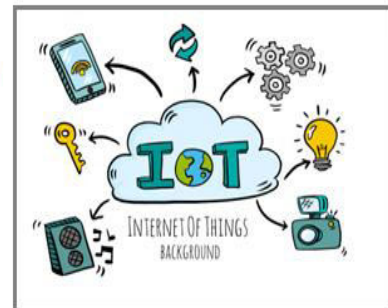
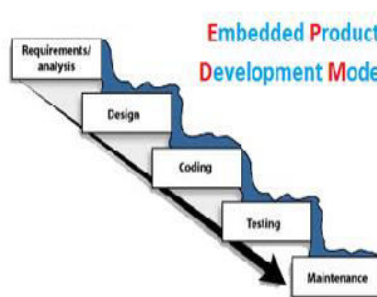
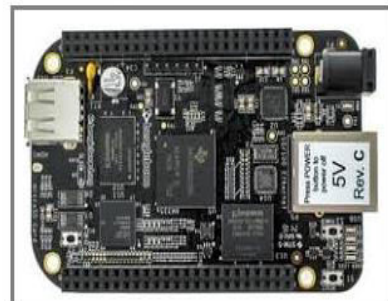
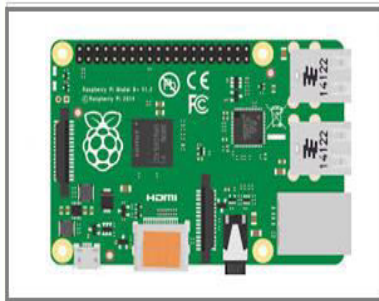
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Embedded Technosolutions is a Professional & Corporate Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical based on industrial standards



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Embedded C 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
- 2.2 Decision control instructions
- 2.3 Loop control instructions



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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

Chapter 5: Pointers

- 5.1 Pointer basics
- 5.2 Passing arguments by address
- 5.3 NULL pointers



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ARM 7 Cortex-M0 Series Processor

Chapter 1: Introduction to ARM Processor

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

Chapter 2 : LPC2148 Microcontroller Pin details, Memory

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



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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

Chapter 6 : Pin Connect block ,GPIO

6.1 Pin Connect Block

6.2 General Purpose I/O:

LED and switches interfacing

Buzzer

LCD

DC Motor

Matrix keypad interfacing



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Chapter 7 : Timer , ADC , UART

- 7.1 Timer
- 7.2 10-bit ADC
- 7.3 UART : Features, Serial Communication

Chapter 8 : I2C , SPI ,PWM

- 8.1 2C-busserialI/OController:Features&InterfacingwithAT24C04
- 8.2 SPI-Serial I/O Controller : Features & Interfacing with SD Memory Card
- 8.3 PWM



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Raspberry Pi with IOT Embedded Linux

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

Linux programming basics

Chapter 3

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

Chapter 4

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



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Chapter 5

Work with I2C protocol

Chapter 6

Developing GUI with TKinter

Microcontroller 8051

Chapter 1

1.1 Introduction to Embedded Systems

1.2 Scope in Embedded Systems

Chapter 2

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

Chapter 5

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

Chapter 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



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Chapter 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

Chapter 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

Chapter 9

- 9.1 Introduction of Relay
- 9.2 Relay interfacing and comparison of relay with other switching devices
- 9.3 Relay programming
- 9.4 Practical application based on relay



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Chapter 10

- 10.1 Introduction of ADC
- 10.2 ADC interfacing
- 10.3 ADC programming

Chapter 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

Chapter 12

- 12.1 Introduction of RF Communication
- 12.2 RF technology interfacing in real application
- 12.3 RF module programming
- 12.4 Practical project design based on RF technology

Chapter 13

- 13.1 Introduction to RFID communication
- 13.2 RFID technology interfacing in real application
- 13.3 RFID module programming & Practical Project Designing



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Wireless Communication

Chapter 1

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

Chapter 2

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

Chapter 3

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



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Chapter 4

- 4.1 Introduction to GSM communication
- 4.2 GSM technology interfacing in real application
- 4.3 GSM module programming
- 4.4 Practical project design based on GSM technology

Chapter 5

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



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Embedded Linux

Chapter 1

- 1.1 Introduction to Operating System —
- 1.2 Kernel – What is Kernel?
- 1.3 Kernel types and its structural implementations
- 1.4 Why OS is required in an Embedded Device?
- 1.5 Entire flow of operations of a Device

Chapter 2

- 2.1 Boot loader
- 2.2 Primary Bootloader
- 2.3 Secondary Bootloader
- 2.4 U-boot



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Chapter 3

3.1 Partition & Rootfs

3.2 Partition Schemes

3.3 Rootfs Organization

3.4 SD Card Layout

3.5 Selected Rootfs of File system



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PCB Designing

Chapter 1 : Getting Started with Altium Designer

- 1.1 Introduction to Altium Designer
- 1.2 The Altium Designer environment
- 1.3 Working with projects and documents

Chapter 2 : Schematic Editor Basics

- 2.1 Schematic Editor Basics
- 2.2 Schematic graphical objects
- 2.3 Schematic electrical objects

Chapter 3 : Schematic Capture

- 3.1 Introduction to Schematic Capture
- 3.2 The Schematic Editor workspace
- 3.3 Libraries and components
- 3.4 Placing and wiring

Chapter 4 : Multi-Sheet Design



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Chapter 5 : Building the Project

- 5.1 Assigning designators
- 5.2 Compiling and verifying the project

Chapter 6 : Setting Up for Transfer to PCB and Importing Data

- 6.1 Setting Up for Transfer to PCB

Chapter 7 : PCB Editor Basics

- 7.1 PCB Editor Basics
- 7.2 PCB design objects

Chapter 8 : Setting up the PCB

- 8.1 Setting up the PCB
- 8.2 Creating a new PCB
- 8.3 Setting up the PCB layers

Chapter 9 : PCB Design Flow, Transferring a Design and Navigation

- 9.1 PCB design process

Chapter 10 : Design Rules

- 10.1 Design rules and design rule checking



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Chapter 11 : Schematic Library Editor

11.1 Introduction to Library Editing

11.2 Schematic Library Editor

Chapter 12 : PCB Library Editor

12.1 PCB Library Editor

Chapter 13 : Routing and Polygons

13.1 Routing

13.2 Automatic routing

13.3 Polygons and the Polygon Manager

Chapter 14 : Output Generation and CAM File Editing

14.1 Bill of Materials

14.2 Output Generation

14.3 CAM Editor

Chapter 15 : Application oriented PCB Design



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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.