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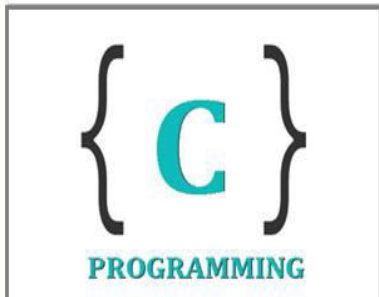
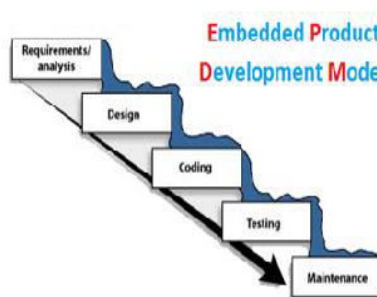
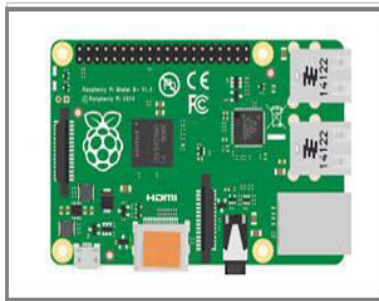
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Embedded Technosolutions is a Professional & Corporate Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

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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