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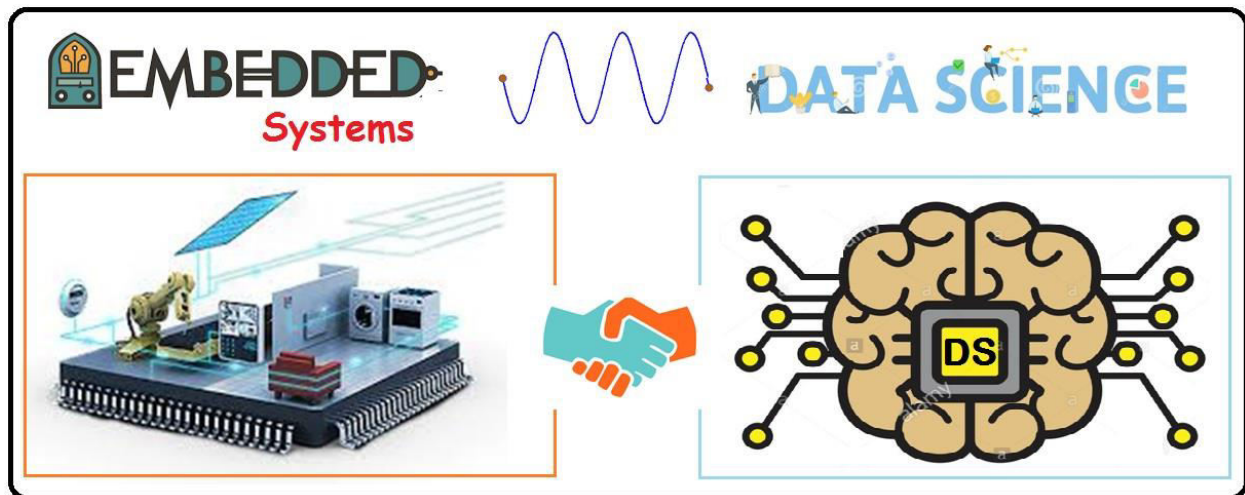
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Embedded C Programming

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



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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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Chapter 5 : Pointers

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

ARM 7 (LPC2148) 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



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- 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
- 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
- LCD
- DC Motor
- Matrix keypad interfacing

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

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

Chapter 4

- 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



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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



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3.3 RFID module programming

3.4 Practical project design based on RFID technology

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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Data Science with Python

Chapter 1 : Introduction

- Introduction to Python Language
- Industrial Importance of Python Language
- Features of Python Language

Chapter 2 : Environment Setup

- Getting Started with Python
- Installing Python
- Unix and Linux Installation in Python
- Windows Installation
- Setting up PATH
- Setting path at Unix / Linux
- Setting path at Windows



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Chapter 3 : Starting With Python Programs

- Script Programming
- Python Identifiers
- Python Keywords
- Python Lines and Indentation
- Python Multi-Line Statements
- Quotation in Python
- Comments in Python
- Using Blank Lines
- Multiple Statements on a Single Line
- Variables and Data Types in Python
- Multiple Assignment in Python Programming
- Standard Data Types in Python
- Data Type Conversion in Python
- Python Input and Output



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Chapter 4 : Python - Operators

- Types of Different Operators in Python
- Changing the Order of Evaluation

Chapter 5 : Conditional statements in Python Programming

- if statements
- if...else statements
- The elif Statement
- Nested if statements

Chapter 6 : LOOPS in Python Programming

- While loop
- The Infinite Loop
- Using else Statement with Loops
- For loop
- Nested loops
- Loop Control Statements



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Chapter 7 : Strings in Python Programming

- Accessing Values in Strings
- Updating Strings
- Escape Characters
- String Special Operators
- String Formatting Operator
- Triple Quotes

Chapter 8 : Lists in Python Programming

- Python Lists
- Accessing Values in Lists
- Updating Lists
- Delete List Elements
- Basic List Operations
- Indexing, Slicing, and Matrixes
- Built-in List Functions & Methods



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Chapter 9 : Tuples in Python Programming

- Python Tuples
- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters
- Built-in Tuple Functions

Chapter 10 : Dictionary in Python Programming

- Python Dictionary
- Accessing Values in Dictionary
- Updating Dictionary
- Delete Dictionary Elements



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- Properties of Dictionary Keys
- Built-in Dictionary Functions & Methods

Chapter 11 : Functions in Python Programming

- Calling a Function
- Pass by reference Vs. value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments
- The Anonymous Functions
- The return Statement
- Scope of Variables
- Global vs. Local variables



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- The global statement

Chapter 12 : Modules in Python Programming

- The import Statement
- The from...import Statement
- The from...import * Statement
- Locating Modules
- The PYTHON PATH Variable
- The time Module
- Getting current time
- Getting formatted time & The calendar Module



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