

## LABORATORY MANUAL

### EE0310 – MICROPROCESSOR & MICROCONTROLLER LAB



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
FACULTY OF ENGINEERING & TECHNOLOGY  
SRM UNIVERSITY, Kattankulathur – 603 203

# Microcontroller Lab Manual Srm University

**Clifford Lane**



## **Microcontroller Lab Manual Srm University:**

*Microcontrollers And Applications With Lab Manual* Kalpathi Ramani, 2010-09      *Microcontrollers & Applications With Lab Manual* Ramani Kalpathi, 2009-01-01 This book is a comprehensive guide for students and practicing engineers which enables them to master the fundamentals of embedded systems programming and will guide them through the steps of creating powerful real world applications Features Simple structured approach to learning with well focused chapter sections Numerous concise examples demonstrate the principles and practices involved in creating full featured real world applications Problems are graded to meet the university standards Secrets to unleashing the full power of Embedded systems design revealed Contents Microprocessors and Micro controllers The 8051 Architecture Addressing Modes and Moving Data Logical Operations Arithmetic Operations and Jump Operations Timer and Counter Programming Interrupts Programming Serial Communications The 8052 Family Special Features with 8051 Core 8051 Interfacing and Applications      *MSP430 Microcontroller Lab Manual* James Kretzschmar, Jeffrey Anderson, Steven F. Barrett, 2024-05-25 This book is a practical reference for using Texas Instruments MSP430 microcontrollers It provides a series of hands on laboratory exercises The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument This book can be used as a reference for planning future projects using the MSP430 microcontroller The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller CPU clock Basic Input Output Timer Analog to Digital Converter They also provide examples of how to develop Pulse Width Modulation signals and how to use Interrupts      **Approval Guide** ,1993      **PIC LAB Manual. Examples for Experiments Using Microcontrollers** Anoop B. K., 2016      *Practical Electronics (Volume I)* Balamurugan A, Veeramanikandasamy T, 2019-12-28 Laboratory experiences are the part of science and technology curricula of higher education This laboratory manual intended to support the undergraduate and postgraduate students in the related fields of Electronics for practicing embedded system experiments The chapters begin with an introduction and it covers the experiments for the 8085 Microprocessor 8051 Microcontroller laboratory Each experiment consists of aim hardware software requirements algorithm program experimental results and conclusion For the most part the lab manual includes the standard laboratory experiments that have been used by many academicians related to electronics departments for years Over sixty three practical experiments described here to explore the practical knowledge of students on embedded systems This book comprises two chapters that are focused on the lab experiments of the 8085 Microprocessor 8051 Microcontroller laboratory This book helps to Promote experiential learning among the students Give practical or informal knowledge to understand how things work Know the interaction between software and hardware      **The Hands-on ARM mbed Development Lab Manual** Agus Kurniawan, This book helps you to get started with ARM mbed development Several codes samples are provided to illustrate how to work with ARM mbed boards using online mbed Compiler The following is highlight topics in this book Setting Up Development Environment mbed

Digital I O ARM mbed UART mbed Analog I O mbed I2C TWI mbed SPI mbed and Bluetooth Low Energy BLE Controlling Servo Motor     **Introduction to Embedded Systems** Manuel Jiménez,Rogelio Palomera,Isidoro Couvertier,2013-09-11

This textbook serves as an introduction to the subject of embedded systems design using microcontrollers as core components It develops concepts from the ground up covering the development of embedded systems technology architectural and organizational aspects of controllers and systems processor models and peripheral devices Since microprocessor based embedded systems tightly blend hardware and software components in a single application the book also introduces the subjects of data representation formats data operations and programming styles The practical component of the book is tailored around the architecture of a widely used Texas Instrument s microcontroller the MSP430 and a companion web site offers for download an experimenter s kit and lab manual along with Powerpoint slides and solutions for instructors     **Microcontroller Lab** Robert E. Glaser,2005-09-01 This is a two semester undergraduate course in

microcontrollers Generic information on the 68HC908JK3 C8051F330D Z8F0421 and 68HC908QT4 is provided along with excerpts from the manufacturer documentation sufficient for students to program these parts with no additional references required Includes hands on assignments to be performed on the University Microcontroller Trainer model UMT 1 from www ICEngineering com     *Microcontroller programming* Mathan,2019-08-07 How to program microcontroller All the steps are

mentioned clearly and a lot of exercises are provided to carry out the programming This is similar to a microcontroller lab manual     **Embedded Controllers Using C and Arduino** James Fiore,2016-03-21 This is the companion laboratory manual to accompany Embedded Controllers Using C and Arduino The fifteen lab exercises range from introductory C programming concepts to interesting and useful device applications Exercises cover topics such as basic digital and analog input output programming and interfacing multiplexing of LED displays how to generate a true analog output use of interrupts and the like Applications include a reaction timer an event counter motor drive using PWM and an arbitrary analog waveform generator Most exercises can be completed using just a computer the low cost Arduino Uno development board and an array of small electronic parts such as LEDs resistors transistors etc Some exercises benefit from an

oscilloscope This is the print version of the on line OER     *Laboratory Experiment in PIC Microcontroller* ,     **Embedded Microcontroller Interfacing** Gourab Sen Gupta,2010-07-15 Mixed Signal Embedded Microcontrollers are commonly used in integrating analog components needed to control non digital electronic systems They are used in automatically controlled devices and products such as automobile engine control systems wireless remote controllers office machines home appliances power tools and toys Microcontrollers make it economical to digitally control even more devices and processes by reducing the size and cost compared to a design that uses a separate microprocessor memory and input output devices In many undergraduate and post graduate courses teaching of mixed signal microcontrollers and their use for project work has become compulsory Students face a lot of difficulties when they have to interface a microcontroller with the electronics they

deal with This book addresses some issues of interfacing the microcontrollers and describes some project implementations with the Silicon Lab C8051F020 mixed signal microcontroller The intended readers are college and university students specializing in electronics computer systems engineering electrical and electronics engineering researchers involved with electronics based system practitioners technicians and in general anybody interested in microcontrollers based projects

ADuC841 Microcontroller Design Manual Shlomo Engelberg,2011-08-31      **Electronics and Microprocessing for Research** David Dubins,2019-01-31 This book is an accompanying textbook for an introductory course in microprocessing Using the Arduino IDE platform it explains introductory electronics programming microprocessing and data collection techniques to allow students to start designing and building their own instruments for research projects The course starts from a beginner level assuming no prior knowledge in these areas The format of the book is that of a laboratory manual which can be used as a stand alone crash course for a self motivated student or be directly adopted as a course textbook for an elective in a college or university context This text was originally developed for PHC435 Pharmaceutical Data Acquisition and Analysis and PHM1138 Electronics for Pharmaceutical Applications at the Leslie Dan Faculty of Pharmacy of the University of Toronto The book includes various fun lab activities that increase in difficulty and enough theory and practical advice to help complement the activities with understanding      *A Microcontroller Laboratory on the Internet* Bryan Devin Infanger,1998      **Practical Aspects of Embedded System Design using Microcontrollers** Jivan Parab,Santosh A. Shinde,Vinod G Shelake,Rajanish K. Kamat,Gourish M. Naik,2008-06-07 Second in the series Practical Aspects of Embedded System Design using Microcontrollers emphasizes the same philosophy of Learning by Doing and Hands on Approach with the application oriented case studies developed around the PIC16F877 and AT 89S52 today s most popular microcontrollers Readers with an academic and theoretical understanding of embedded microcontroller systems are introduced to the practical and industry oriented Embedded System design When kick starting a project in the laboratory a reader will be able to benefit experimenting with the ready made designs and C programs One can also go about carving a big dream project by treating the designs and programs presented in this book as building blocks Practical Aspects of Embedded System Design using Microcontrollers is yet another valuable addition and guides the developers to achieve shorter product development times with the use of microcontrollers in the days of increased software complexity Going through the text and experimenting with the programs in a laboratory will definitely empower the potential reader having more or less programming or electronics experience to build embedded systems using microcontrollers around the home office store etc Practical Aspects of Embedded System Design using Microcontrollers will serve as a good reference for the academic community as well as industry professionals and overcome the fear of the newbies in this field of immense global importance      **Lab Manual for Motorola MC68332** Harman,1991-08-01      **Instructor's Manual for Microcontrollers and Microcomputers** Fredrick M. Cady,1998 This Instructor s Manual is intended to accompany Microcontrollers and Microcomputers Software and

Hardware Engineering by Fredrick M Cady It features detailed solutions to problems a description of the text and a detailed course plant This manual is available free to adopters of the text and is available through the College Marketing department

**Practical Microcontroller Engineering with ARMa Technology** Ying Bai,2015 This book introduces the basic concepts and practical techniques in designing and building ARM R microcontrollers in industrial and commercial applications Practical Microcontroller Engineering with ARM R Technology provides the full scope of components and materials related to ARM R Cortex R M4 microcontroller systems Chapters 2 through 9 provide the fundamentals and detailed discussions about ARM R Cortex R M4 MCU applications with the most widely used peripherals such as flash memory EEPROM ADC DAC PWM UART USB I2C SSI LCD and GPTM The remaining chapters cover advanced and optional peripherals such as Control Area Network CAN Quadrature Encoder Interface QEI Analog Comparators ACMP and detailed discussions of Floating Point Unit FPU and ARM R Cortex R M4 Memory Protection Unit MPU Special features of this book The first microcontroller textbook to provide complete and systemic introductions and technologies to cover all components and materials related to ARM R Cortex R M4 microcontroller system including hardware and software as well as practical applications with real examples ARM R assembly and C codes to assist users to develop professional projects with any language easily and efficiently 70 real life example projects on the most popular peripherals with detailed line by line explanations and illustrations Both the Direct Register Access DRA model and the Software Driver SD model programming techniques with complete and applicable projects End of Chapter homework problems including true false and multiple choice questions as well as lab projects 12 chapters of teaching slides homework and lab solutions for Instructors Written for both students and experienced programmers this book covers ARM Cortex M4 in an easy to understand format while providing the reader with the ability to test their knowledge through exercises throughout the book Dr Ying Bai is a Professor in the Department of Computer Science and Engineering at Johnson C Smith University JCSU Before joining JCSU Dr Bai worked as a software and senior software engineer at Motorola MMS Schlumberger ATE Technology Immix TeleCom and LAM Research He has published twelve 12 books with publishers such as Prentice Hall CRC Press LLC Springer Cambridge University Press and Wiley IEEE Press in recent years

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