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2021-12-06

DUDLEY JENNINGS

Programming and Customizing

PICmicro (R) Microcontrollers Apress
Embedded systems are today, widely deployed in just about every piece of machinery from toasters to spacecraft. Embedded system designers face many challenges. They are asked to produce increasingly complex systems using the latest technologies, but these technologies are changing faster than ever. They are asked to produce better quality designs with a shorter time-to-market. They are asked to implement increasingly complex functionality but more importantly to satisfy numerous other constraints. To achieve the current goals of design, the designer must be aware with such design constraints and more importantly, the factors that have a direct effect on them. One of the challenges facing embedded system designers is the selection of the optimum processor for the application in hand; single-purpose, general-purpose or application specific. Microcontrollers are one member of the family of the application specific processors. The book concentrates on the use of microcontroller as the embedded system's processor, and how to use it in many embedded system applications. The book covers both the hardware and software aspects needed to design using microcontroller. The book is ideal for undergraduate students and also the engineers that are working in the field of digital system design.

Running Small Motors with PIC
Microcontrollers Springer Science &
Business Media

The book is a collection of experiments using a single advanced 8-bit microcontroller from Microchip(R) - the PIC18F2431. The language used is XC8, free from Microchip(R), and there is no theoretical burden. The programming environment used is MPLAB X, also free from Microchip(R). The book is intended

for use in companion with a theoretical reading/course on embedded systems (or similar course), along with the PIC18F2431 datasheet (Microchip document DS39616D), and all other datasheets that are included in each experiment, which should be used as reference guides. With the datasheet of any other processor different from the PIC18F2431 the book can also be used with that PIC microcontroller. All one needs to do is to look for the similar pinouts and ports in the datasheet of the other microcontroller and follow the examples in this book. So, the knowledge gained here can be applied to other PIC microcontrollers with a little more effort. This book is a sequel to my first experiments lab book, PIC EXPERIMENTS LAB BOOK USING PIC16F877A and XC8. The previous book contained 29 Experiments; this book contains 56 Experiments. I observed that a required LCD header file "CHARACTER_MAP.h" was omitted by error in the previous book. This book includes not only the "CHARACTER_MAP.h" but also a complete LCD library header file "SUNPLUSLCD.h" which uses the "CHARACTER_MAP.h". Moreover, a new USART library file "UART.h" has been included. All the experiments implementing USART with RS232 have been replicated using Bluetooth and even more experiments on Bluetooth are added. This is because it is more convenient and economical to implement serial communication using Bluetooth than RS232 (as long as the environment is not too noisy). Other new experiments are: FTDI232, SPI, SONAR, temperature sensor, temperature controlled fan, relay, signal processing using drone radio transmitter and receiver, multichannel ADC, brushless DC motor (BLDC) ESC, bipolar stepper full-step (1 phase and 2 phase), bipolar half-step, and a light seeking robot. In addition, all codes are printed with the full MPLAB X colour for readability and understanding. The diagrams have been redrawn and posted as high quality svg images in full

colour. Two new chapters, "Power supply" and "Equipment and tools" have been included. A section on troubleshooting has also been included after every similar experiment. Future editions will include more experiments and projects.

Programming 32-bit Microcontrollers in C
Elsevier

Este livro vem para apresentar a linguagem C com base no compilador mikroC da mikroe. Diversos exemplos são apresentados de forma que o leitor aprenda de forma lúdica a programar o PIC16F877A por esta excelente ferramenta de programação, que é o mikroC. Diversos exemplos são apresentados como lcd, pwm, teclado matricial assim como o esquema elétrico da placa é disponibilizado no apêndice do livro.

Programming the PIC Microcontroller with MBASIC

Clube de Autores
This book is ideal for the engineer, technician, hobbyist and student who have knowledge of the basic principles of PIC microcontrollers and want to develop more advanced applications using the 18F series. The architecture of the PIC 18FXXX series as well as typical oscillator, reset, memory, and input-output circuits is completely detailed. After giving an introduction to programming in C, the book describes the project development cycle in full, giving details of the process of editing, compilation, error handling, programming and the use of specific development tools. The bulk of the book gives full details of tried and tested hands-on projects, such as the 12C BUS, USB BUS, CAN BUS, SPI BUS and real-time operating systems. A clear introduction to the PIC 18FXXX microcontroller's architecture 20 projects, including developing wireless and sensor network applications, using I2C BUS, USB BUS, CAN BUS and the SPI BUS, which give the block and circuit diagram, program description in PDL, program listing and program description Numerous examples of using developmental tools: simulators, in-circuit debuggers (especially ICD2) and

emulators

PIC Microcontroller Projects in C

McGraw Hill Professional

This book is targeted for students of electronics and computer sciences. The first part of the book contains 15 original applications working on the PIC microcontroller, including: lighting diodes, communication with RS232 (bit-banging), interfacing to 7-segment and LCD displays, interfacing to matrix keypad 3 x 4, working with PWM module and others. This material can be used to cover one semester's teaching of microcontroller programming or similar classes. The volume contains schematic diagrams and source codes with detailed descriptions. All tests were prepared on the basis of the original documentation (data sheets, application notes). The next three chapters: The Stack, Tables and Table Instruction and Data Memory pertain to PIC18F1320. Software referred to is also presented in assembly language. Finally the application of the PIC24FJ microcontroller with the 240x128 LCD display, T6963C and with accelerometer sensor, written in C are described.

Embedded Software Development with C
Newnes

*Just months after the introduction of the new generation of 32-bit PIC microcontrollers, a Microchip insider and acclaimed author takes you by hand at the exploration of the PIC32 *Includes handy checklists to help readers perform the most common programming and debugging tasks The new 32-bit microcontrollers bring the promise of more speed and more performance while offering an unprecedented level of compatibility with existing 8 and 16-bit PIC microcontrollers. In sixteen engaging chapters, using a parallel track to his previous title dedicated to 16-bit programming, the author puts all these claims to test while offering a gradual introduction to the development and debugging of embedded control applications in C. Author Lucio Di Jasio, a PIC and embedded control expert, offers unique insight into the new 32-bit architecture while developing a number of projects of growing complexity. Experienced PIC users and newcomers to the field alike will benefit from the text's many thorough examples which demonstrate how to nimbly side-step common obstacles, solve real-world design problems efficiently and optimize code using the new PIC32 features and peripheral set. You will learn about: *basic timing and I/O operation *debugging methods with the MPLAB SIM *simulator and ICD tools *multitasking using the

PIC32 interrupts *all the new hardware peripherals *how to control LCD displays *experimenting with the Explorer16 board and *the PIC32 Starter Kit *accessing mass-storage media *generating audio and video signals *and more! TABLE OF CONTENTS Day 1 And the adventure begins Day 2 Walking in circles Day 3 Message in a Bottle Day 4 NUMB3RS Day 5 Interrupts Day 6 Memory Part 2 Experimenting Day 7 Running Day 8 Communication Day 9 Links Day 10 Glass = Bliss Day 11 It's an analog world Part 3 Expansion Day 12 Capturing User Inputs Day 13 UTube Day 14 Mass Storage Day 15 File I/O Day 16 Musica Maestro! 32-bit microcontrollers are becoming the technology of choice for high performance embedded control applications including portable media players, cell phones, and GPS receivers. Learn to use the C programming language for advanced embedded control designs and/or learn to migrate your applications from previous 8 and 16-bit architectures.

PIC Experiments Lab Book with PIC18F2431 and XC8 John Wiley & Sons
PIC Microcontrollers are a favorite in industry and with hobbyists. These microcontrollers are versatile, simple, and low cost making them perfect for many different applications. The 8-bit PIC is widely used in consumer electronic goods, office automation, and personal projects. Author, Dogan Ibrahim, author of several PIC books has now written a book using the PIC18 family of microcontrollers to create projects with SD cards. This book is ideal for those practicing engineers, advanced students, and PIC enthusiasts that want to incorporate SD Cards into their devices. SD cards are cheap, fast, and small, used in many MP3 players, digital and video cameras, and perfect for microcontroller applications. Complete with Microchip's C18 student compiler and using the C language this book brings the reader up to speed on the PIC 18 and SD cards, knowledge which can then be harnessed for hands-on work with the eighteen projects included within. Two great technologies are brought together in this one practical, real-world, hands-on cookbook perfect for a wide range of PIC fans. Eighteen fully worked SD projects in the C programming language Details memory cards usage with the PIC18 family
Intermediate C Programming for the PIC Microcontroller Elsevier

• A Microchip insider tells all on the newest, most powerful PICs ever! • FREE CD-ROM includes source code in C, the Microchip C30 compiler, and MPLAB SIM software • Includes handy checklists to help readers perform the most common

programming and debugging tasks The new 16-bit PIC24 chip provides embedded programmers with more speed, more memory, and more peripherals than ever before, creating the potential for more powerful cutting-edge PIC designs. This book teaches readers everything they need to know about these chips: how to program them, how to test them, and how to debug them, in order to take full advantage of the capabilities of the new PIC24 microcontroller architecture. Author Lucio Di Jasio, a PIC expert at Microchip, offers unique insight into this revolutionary technology, guiding the reader step-by-step from 16-bit architecture basics, through even the most sophisticated programming scenarios. This book's common-sense, practical, hands-on approach begins simply and builds up to more challenging exercises, using proven C programming techniques. Experienced PIC users and newcomers to the field alike will benefit from the text's many thorough examples, which demonstrate how to nimbly side-step common obstacles, solve real-world design problems efficiently, and optimize code for all the new PIC24 features. You will learn about: • basic timing and I/O operations, • multitasking using the PIC24 interrupts, • all the new hardware peripherals • how to control LCD displays, • generating audio and video signals, • accessing mass-storage media, • how to share files on a mass-storage device with a PC, • experimenting with the Explorer 16 demo board, debugging methods with MPLAB-SIM and ICD2 tools, and more! ·A Microchip insider tells all on the newest, most powerful PICs ever! ·Condenses typical introductory "fluff" focusing instead on examples and exercises that show how to solve common, real-world design problems quickly ·Includes handy checklists to help readers perform the most common programming and debugging tasks ·FREE CD-ROM includes source code in C, the Microchip C30 compiler, and MPLAB SIM software, so that readers gain practical, hands-on programming experience ·Check out the author's Web site at <http://www.flyingpic24.com> for FREE downloads, FAQs, and updates
Programming 8-bit PIC Microcontrollers in C Apress
MASTER PIC MICROCONTROLLER TECHNOLOGY AND ADD POWER TO YOUR NEXT PROJECT! Tap into the latest advancements in PIC technology with the fully revamped Third Edition of McGraw-Hill's Programming and Customizing the PIC Microcontroller. Long known as the subject's definitive text, this indispensable volume comes packed with more than 600

illustrations, and provides comprehensive, easy-to-understand coverage of the PIC microcontroller's hardware and software schemes. With 100 experiments, projects, and libraries, you get a firm grasp of PICs, how they work, and the ins-and-outs of their most dynamic applications. Written by renowned technology guru Myke Predko, this updated edition features a streamlined, more accessible format, and delivers: Concentration on the three major PIC families, to help you fully understand the synergy between the Assembly, BASIC, and C programming languages Coverage of the latest program development tools A refresher in electronics and programming, as well as reference material, to minimize the searching you will have to do WHAT'S INSIDE! Setting up your own PIC microcontroller development lab PIC MCU basics PIC microcontroller interfacing capabilities, software development, and applications Useful tables and data Basic electronics Digital electronics BASIC reference C reference 16-bit numbers Useful circuits and routines that will help you get your applications up and running quickly

Basic to Advanced McGraw Hill Professional

Go beyond the jigsaw approach of just using blocks of code you don't understand and become a programmer who really understands how your code works. Starting with the fundamentals on C programming, this book walks you through where the C language fits with microcontrollers. Next, you'll see how to use the industrial IDE, create and simulate a project, and download your program to an actual PIC microcontroller. You'll then advance into the main process of a C program and explore in depth the most common commands applied to a PIC microcontroller and see how to use the range of control registers inside the PIC. With C Programming for the PIC Microcontroller as your guide, you'll become a better programmer who can truly say they have written and understand the code they use. What You'll Learn Use the freely available MPLAX software Build a project and write a program using inputs from switches Create a variable delay with the oscillator source Measure real-world signals using pressure, temperature, and speed inputs Incorporate LCD screens into your projects Apply what you've learned into a simple embedded program Who This Book Is For Hobbyists who want to move into the challenging world of embedded programming or students on an engineering course.

Microcontroller Programming River

Publishers

Program PIC microcontrollers to drive small motors Get your motors running in no time using this easy-to-follow guide. Detailed circuit diagrams and hands-on tutorials show you, step by step, how to program PIC microcontrollers to power a wide variety of small motors. You'll learn how to configure all the hardware and software components and test, troubleshoot, and debug your work.

Running Small Motors with PIC Microcontrollers is filled with more than 2,000 lines of PicBasic Pro code you can use right away. Use PIC microcontrollers to control all kinds of small motors, including: Model aircraft R/C servos Small DC motors Servo DC motors with quadrature encoders Bipolar stepper motors Small AC motors, solenoids, and relays PIC Microcontroller and Embedded Systems Newnes

Embedded Systems with PIC Microcontrollers: Principles and Applications is a hands-on introduction to the principles and practice of embedded system design using the PIC microcontroller. Packed with helpful examples and illustrations, the book provides an in-depth treatment of microcontroller design as well as programming in both assembly language and C, along with advanced topics such as techniques of connectivity and networking and real-time operating systems. In this one book students get all they need to know to be highly proficient at embedded systems design. This text combines embedded systems principles with applications, using the 16F84A, 16F873A and the 18F242 PIC microcontrollers. Students learn how to apply the principles using a multitude of sample designs and design ideas, including a robot in the form of an autonomous guide vehicle. Coverage between software and hardware is fully balanced, with full presentation given to microcontroller design and software programming, using both assembler and C. The book is accompanied by a companion website containing copies of all programs and software tools used in the text and a 'student' version of the C compiler. This textbook will be ideal for introductory courses and lab-based courses on embedded systems, microprocessors using the PIC microcontroller, as well as more advanced courses which use the 18F series and teach C programming in an embedded environment. Engineers in industry and informed hobbyists will also find this book a valuable resource when designing and implementing both simple and sophisticated embedded systems using

the PIC microcontroller. *Gain the knowledge and skills required for developing today's embedded systems, through use of the PIC microcontroller. *Explore in detail the 16F84A, 16F873A and 18F242 microcontrollers as examples of the wider PIC family. *Learn how to program in Assembler and C. *Work through sample designs and design ideas, including a robot in the form of an autonomous guided vehicle. *Accompanied by a CD-ROM containing copies of all programs and software tools used in the text and a 'student' version of the C compiler.

Simplifying Embedded Programming Apress

Combines the theory and the practice of applied digital control This book presents the theory and application of microcontroller based automatic control systems. Microcontrollers are single-chip computers which can be used to control real-time systems. Low-cost, single chip and easy to program, they have traditionally been programmed using the assembly language of the target processor. Recent developments in this field mean that it is now possible to program these devices using high-level languages such as BASIC, PASCAL, or C. As a result, very complex control algorithms can be developed and implemented on the microcontrollers. Presenting a detailed treatment of how microcontrollers can be programmed and used in digital control applications, this book: * Introduces the basic principles of the theory of digital control systems. * Provides several working examples of real working mechanical, electrical and fluid systems. * Covers the implementation of control algorithms using microcontrollers. * Examines the advantages and disadvantages of various realization techniques. * Describes the use of MATLAB in the analysis and design of control systems. * Explains the sampling process, z-transforms, and the time response of discrete-time systems in detail. Practising engineers in industry involved with the design and implementation of computer control systems will find Microcontroller Based Applied Digital Control an invaluable resource. In addition, researchers and students in control engineering and electrical engineering will find this book an excellent research tool.

PIC Microcontrollers: Know It All

Charles River Media

Many systems today use the C programming language as it is available for most computers This book looks at how to produce C programs to execute on a PC or a MAC computer. It also looks at the

Arduino UNO micro controller and describes how to write C programs using the Arduino 'wired' C functions as well as using standard ANSI C with direct access to the micro controller registers of the Arduino UNO. This can lead to improved efficiency of the programs. Most of the Hardware available in the Arduino micro controller is described, and programs provided showing how to control and use them. There is a chapter on how to create your own programs and also how to change a program created to execute on the Arduino so that it can run on a different micro controller, such as the Microchip PIC. This allows the Arduino to be used as a rapid prototype system. The book also contains many working program examples with additional workshop exercises for the reader to study.

Demystify Coding with Embedded Programming Newnes

From cell phones and television remote controls to automobile engines and spacecraft, microcontrollers are everywhere. Programming these prolific devices is a much more involved and integrated task than it is for general-purpose microprocessors; microcontroller programmers must be fluent in application development, systems programming, and I/O operation as well as memory management and system timing. Using the popular and pervasive mid-range 8-bit Microchip PIC® as an archetype, *Microcontroller Programming* offers a self-contained presentation of the multidisciplinary tools needed to design and implement modern embedded systems and microcontrollers. The authors begin with basic electronics, number systems, and data concepts followed by digital logic, arithmetic, conversions, circuits, and circuit components to build a firm background in the computer science and electronics fundamentals involved in programming microcontrollers. For the remainder of the book, they focus on PIC architecture and programming tools and work systematically through programming various functions, modules, and devices. Helpful appendices supply the full mid-range PIC instruction set as well as additional programming solutions, a guide to resistor color codes, and a concise method for building custom circuit boards. Providing just the right mix of theory and practical guidance, *Microcontroller Programming: The Microchip PIC®* is the ideal tool for any amateur or professional designing and implementing stand-alone systems for a wide variety of applications. *C Programming For the PC the MAC and the Arduino Microcontroller System* McGraw Hill Professional

This book is a fully updated and revised compendium of PIC programming information. Comprehensive coverage of the PICMicros' hardware architecture and software schemes will complement the host of experiments and projects making this a true, "Learn as you go" tutorial. New sections on basic electronics and basic programming have been added for less sophisticated users along with 10 new projects and 20 new experiments. New pedagogical features have also been added such as "Programmers Tips" and "Hardware Fast FAQs". Key Features: * Printed Circuit Board for a PICMicro programmer included with the book! This programmer will have the capability to program all the PICMicros used by the application. * Twice as many projects including a PICMicro based Webserver * Twenty new "Experiments" to help the user better understand how the PICMicro works. * An introduction to Electronics and Programming in the Appendices along with engineering formulas and PICMicro web references.

Microprocessors Createspace Independent Publishing Platform

Microcontrollers are present in many new and existing electronic products, and the PIC microcontroller is a leading processor in the embedded applications market. Students and development engineers need to be able to design new products using microcontrollers, and this book explains from first principles how to use the universal development language C to create new PIC based systems, as well as the associated hardware interfacing principles. The book includes many source code listings, circuit schematics and hardware block diagrams. It describes the internal hardware of 8-bit PIC microcontroller, outlines the development systems available to write and test C programs, and shows how to use CCS C to create PIC firmware. In addition, simple interfacing principles are explained, a demonstration program for the PIC mechatronics development board provided and some typical applications outlined.

*Focuses on the C programming language which is by far the most popular for microcontrollers (MCUs) *Features Proteus VSMg the most complete microcontroller simulator on the market, along with CCS PCM C compiler, both are highly compatible with Microchip tools *Extensive downloadable content including fully worked examples

Demystify Coding with Embedded Programming Springer Science & Business Media

Delve into the exciting world of embedded programming with PIC microcontrollers in

C. The key to learning how to program is to understand how the code works - and that is what you'll learn here. Following *C Programming for the PIC Microcontroller*, this book continues exploring the coding required to control the PIC microcontroller and can be used as a standalone single reference, or paired with the previous title to enhance your programming skills. You'll see how to control the position of a servo motor and use the compare aspect of the CCP module to create a square wave with varying frequency. You'll also work with the capture aspect of the CCP to determine the frequency of a signal inputted to the PIC and use external and internal interrupts. This book breaks down the programs with line-by-line analysis to give you a deep understanding of the code. After reading it you'll be able to use all three aspects of the Capture, Compare and PWM module; work with different types of interrupts; create useful projects with the 7 segment display; and use the LCD and push button keyboard. What You'll Learn Create a small musical keyboard with the PIC Manage a stepper motor with the PIC Use the main features of the MPLABX IDE Interface the PIC to the real world Design and create useful programs based around the PIC18F4525 Who This Book Is For Engineering students and hobbyist who want to try their hand at embedded programming the PIC micros. C Programming for the PIC Microcontroller Wiley

PIC Microcontroller Projects in C Basic to Advanced Newnes
PIC BASIC Lulu.com

This book is a thoroughly practical way to explore the 8051 and discover C programming through project work. Through graded projects, Dogan Ibrahim introduces the reader to the fundamentals of microelectronics, the 8051 family, programming in C, and the use of a C compiler. The specific device used for examples is the AT89C2051 - a small, economical chip with re-writable memory, readily available from the major component suppliers. A working knowledge of microcontrollers, and how to program them, is essential for all students of electronics. In this rapidly expanding field many students and professionals at all levels need to get up to speed with practical microcontroller applications. Their rapid fall in price has made microcontrollers the most exciting and accessible new development in electronics for years - rendering them equally popular with engineers, electronics hobbyists and teachers looking for a fresh range of projects. *Microcontroller Projects in C for the 8051* is an ideal resource for self-study

as well as providing an interesting, enjoyable and easily mastered alternative to more theoretical textbooks. Practical

projects that enable students and practitioners to get up and running straight away with 8051 microcontrollers A

hands-on introduction to practical C programming A wealth of project ideas for students and enthusiasts