

Mike James

Microcontroller Cookbook

PIC & 8051

SECOND EDITION



Microcontroller Cookbook

Gautam Iyer



Microcontroller Cookbook:

Microcontroller Cookbook Mike James, 2001 The project based cookbook approach of this book guides the reader through programming interfacing development work and circuit design using two of the most popular microcontroller families

The Microcontroller Application Cookbook Featuring the BASIC Stamp 2 Matt Gilliland, 2000-12-07 *Making Embedded Systems* Elecia White, 2011-10-25 Interested in developing embedded systems Since they don't tolerate inefficiency these systems require a disciplined approach to programming This easy to read guide helps you cultivate a host of good development practices based on classic software design patterns and new patterns unique to embedded programming Learn how to build system architecture for processors not operating systems and discover specific techniques for dealing with hardware difficulties and manufacturing requirements Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys this book is ideal for intermediate and experienced programmers no matter what platform you use Optimize your system to reduce cost and increase performance Develop an architecture that makes your software robust in resource constrained environments Explore sensors motors and other I/O devices Do more with less reduce RAM consumption code space processor cycles and power consumption Learn how to update embedded code directly in the processor Discover how to implement complex mathematics on small processors Understand what interviewers look for when you apply for an embedded systems job Making Embedded Systems is the book for a C programmer who wants to enter the fun and lucrative world of embedded systems It's very well written entertaining even and filled with clear illustrations Jack Ganssle author and embedded system expert **Microcontroller Theory and Applications with the PIC18F** M. Rafiquzzaman, 2018-01-02 A thorough revision that provides a clear understanding of the basic principles of microcontrollers using C programming and PIC18F assembly language This book presents the fundamental concepts of assembly language programming and interfacing techniques associated with typical microcontrollers As part of the second edition's revisions PIC18F assembly language and C programming are provided in separate sections so that these topics can be covered independent of each other if desired This extensively updated edition includes a number of fundamental topics Characteristics and principles common to typical microcontrollers are emphasized Interfacing techniques associated with a basic microcontroller such as the PIC18F are demonstrated from chip level via examples using the simplest possible devices such as switches LEDs Seven Segment displays and the hexadecimal keyboard In addition interfacing the PIC18F with other devices such as LCD displays ADC and DAC is also included Furthermore topics such as CCP Capture Compare PWM and Serial I/O using C along with simple examples are also provided Microcontroller Theory and Applications with the PIC18F 2nd Edition is a comprehensive and self-contained book that emphasizes characteristics and principles common to typical microcontrollers In addition the text Includes increased coverage of C language programming with the PIC18F I/O and interfacing techniques Provides a more detailed explanation of PIC18F

timers PWM and Serial I O using C Illustrates C interfacing techniques through the use of numerous examples most of which have been implemented successfully in the laboratory This new edition of Microcontroller Theory and Applications with the PIC18F is excellent as a text for undergraduate level students of electrical computer engineering and computer science

PICAXE Microcontroller Projects for the Evil Genius Ron Hackett,2010-09-05 WHIP UP SOME FIENDISHLY FUN PICAXE MICROCONTROLLER DEVICES Ron has worked hard to explain how the PICAXE system operates through simple examples and I m sure his easy to read style will help many people progress with their PICAXE projects From the Foreword by Clive Seager Revolution Education Ltd This wickedly inventive guide shows you how to program build and debug a variety of PICAXE microcontroller projects PICAXE Microcontroller Projects for the Evil Genius gets you started with programming and I O interfacing right away and then shows you how to develop a master processor circuit From Hello World to Hail Octavius All the projects in Part I can be accomplished using either an M or M2 class PICAXE processor and Part II adds 20X2 based master processor projects to the mix Part III culminates in the creation of Octavius a sophisticated robotics experimentation platform featuring a 40X2 master processor and eight breadboard stations which allow you to develop intelligent peripherals to augment Octavius functioning The only limit is your imagination PICAXE Microcontroller Projects for the Evil Genius Features step by step instructions and helpful photos and illustrations Allows you to customize each project for your purposes Offers all the programs in the book free for download Removes the frustration factor all required parts are listed along with sources Build these and other devious devices Simple mini stereo jack adapter USBS PA3 PICAXE programming adapter Power supply Three state digital logic probe 20X2 master processor circuit TV R input module 8 bit parallel 16X2 LCD board Serialized 16X2 LCD Serialized 4X4 matrix keypad SPI 4 digit LED display Countdown timer Programmable multi function peripheral device and operating system Octavius advanced robotics experimentation platform L298 dual DC motor controller board Each fun inexpensive Evil Genius project includes a detailed list of materials sources for parts schematics and lots of clear well illustrated instructions for easy assembly The larger workbook style layout and convenient two column format make following the step by step instructions a breeze Make Great Stuff TAB an imprint of McGraw Hill Professional is a leading publisher of DIY technology books for makers hackers and electronics hobbyists

Programming and Customizing the Multicore Propeller Microcontroller: The Official Guide Parallax,2010-02-05 The Only Official Guide to the Parallax Multicore Propeller Microcontroller Written by a team of Propeller experts this authoritative guide shows you how to realize your design concepts by taking full advantage of the multicore Propeller microcontroller s unique architecture The book begins with a review of the Propeller hardware software and Spin language so you can get started right away Programming and Customizing the Multicore Propeller Microcontroller The Official Guide is filled with a wide variety of step by step hands on projects Put your ideas into production when you learn how to Debug code for multiple cores Understand how the Propeller interacts with different sensors Wirelessly network Propeller chips

Build a balancing robot and control it with computer vision Develop networking applications using an off the shelf Ethernet chip Create a portable multivariable GPS tracking and data logging device Use the Propeller as a remote virtual peripheral for media applications Create a Propeller powered HVAC green house model Synthesize speech with the Propeller

Experience more of the process at mhprofessional.com/propeller **TinyML Cookbook** Gian Marco Iodice, 2022-04-01

Work through over 50 recipes to develop smart applications on Arduino Nano 33 BLE Sense and Raspberry Pi Pico using the power of machine learning Key Features Train and deploy ML models on Arduino Nano 33 BLE Sense and Raspberry Pi Pico Work with different ML frameworks such as TensorFlow Lite for Microcontrollers and Edge Impulse Explore cutting edge technologies such as microTVM and Arm Ethos U55 microNPU Book Description This book explores TinyML a fast growing field at the unique intersection of machine learning and embedded systems to make AI ubiquitous with extremely low powered devices such as microcontrollers The TinyML Cookbook starts with a practical introduction to this multidisciplinary field to get you up to speed with some of the fundamentals for deploying intelligent applications on Arduino Nano 33 BLE Sense and Raspberry Pi Pico As you progress you ll tackle various problems that you may encounter while prototyping microcontrollers such as controlling the LED state with GPIO and a push button supplying power to microcontrollers with batteries and more Next you ll cover recipes relating to temperature humidity and the three V sensors Voice Vision and Vibration to gain the necessary skills to implement end to end smart applications in different scenarios Later you ll learn best practices for building tiny models for memory constrained microcontrollers Finally you ll explore two of the most recent technologies microTVM and microNPU that will help you step up your TinyML game By the end of this book you ll be well versed with best practices and machine learning frameworks to develop ML apps easily on microcontrollers and have a clear understanding of the key aspects to consider during the development phase What you will learn Understand the relevant microcontroller programming fundamentals Work with real world sensors such as the microphone camera and accelerometer Run on device machine learning with TensorFlow Lite for Microcontrollers Implement an app that responds to human voice with Edge Impulse Leverage transfer learning to classify indoor rooms with Arduino Nano 33 BLE Sense Create a gesture recognition app with Raspberry Pi Pico Design a CIFAR 10 model for memory constrained microcontrollers Run an image classifier on a virtual Arm Ethos U55 microNPU with microTVM Who this book is for This book is for machine learning developers engineers interested in developing machine learning applications on microcontrollers through practical examples quickly Basic familiarity with C C the Python programming language and the command line interface CLI is required However no prior knowledge of microcontrollers is necessary [DIY Microcontroller Projects for Hobbyists](#) Miguel Angel Garcia-Ruiz, Pedro Cesar Santana Mancilla, 2021-07-30 A practical guide to building PIC and STM32 microcontroller board applications with C and C programming Key Features Discover how to apply microcontroller boards in real life to create interesting IoT projects Create innovative solutions to help improve the lives of people affected by the COVID 19 pandemic

Design build program and test microcontroller based projects with the C and C programming language Book Description We live in a world surrounded by electronic devices and microcontrollers are the brains of these devices Microcontroller programming is an essential skill in the era of the Internet of Things IoT and this book helps you to get up to speed with it by working through projects for designing and developing embedded apps with microcontroller boards DIY Microcontroller Projects for Hobbyists are filled with microcontroller programming C and C language constructs You ll discover how to use the Blue Pill containing a type of STM32 microcontroller and Curiosity Nano containing a type of PIC microcontroller boards for executing your projects as PIC is a beginner level board and STM 32 is an ARM Cortex based board Later you ll explore the fundamentals of digital electronics and microcontroller board programming The book uses examples such as measuring humidity and temperature in an environment to help you gain hands on project experience You ll build on your knowledge as you create IoT projects by applying more complex sensors Finally you ll find out how to plan for a microcontroller based project and troubleshoot it By the end of this book you ll have developed a firm foundation in electronics and practical PIC and STM32 microcontroller programming and interfacing adding valuable skills to your professional portfolio What you will learn Get to grips with the basics of digital and analog electronics Design build program and test a microcontroller based system Understand the importance and applications of STM32 and PIC microcontrollers Discover how to connect sensors to microcontroller boards Find out how to obtain sensor data via coding Use microcontroller boards in real life and practical projects Who this book is for This STM32 PIC microcontroller book is for students hobbyists and engineers who want to explore the world of embedded systems and microcontroller programming Beginners as well as more experienced users of digital electronics and microcontrollers will also find this book useful Basic knowledge of digital circuits and C and C programming will be helpful but not necessary

TinyML Pete Warden, Daniel Situnayake, 2019-12-16 Deep learning networks are getting smaller Much smaller The Google Assistant team can detect words with a model just 14 kilobytes in size small enough to run on a microcontroller With this practical book you ll enter the field of TinyML where deep learning and embedded systems combine to make astounding things possible with tiny devices Pete Warden and Daniel Situnayake explain how you can train models small enough to fit into any environment Ideal for software and hardware developers who want to build embedded systems using machine learning this guide walks you through creating a series of TinyML projects step by step No machine learning or microcontroller experience is necessary Build a speech recognizer a camera that detects people and a magic wand that responds to gestures Work with Arduino and ultra low power microcontrollers Learn the essentials of ML and how to train your own models Train models to understand audio image and accelerometer data Explore TensorFlow Lite for Microcontrollers Google s toolkit for TinyML Debug applications and provide safeguards for privacy and security Optimize latency energy usage and model and binary size

An Introduction to Texas Instruments C2000 Real-Time Control Microcontrollers Gautam Iyer, 2017-03-02 This book covers all the aspects around TI C2000 controllers The following being

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Online TIE2E Forum My YouTube Channel TI E2E Profile Links **TinyML Cookbook** Gian Marco Iodice,2023-11-29 Over
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on how to use the CMSIS DSP library Create a gesture recognition app to build a remote control Design a CIFAR 10 model for memory constrained microcontrollers Train a neural network on microcontrollers Who this book is for This book is ideal for machine learning engineers or data scientists looking to build embedded edge ML applications and IoT developers who want to add machine learning capabilities to their devices If you re an engineer student or hobbyist interested in exploring tinyML then this book is your perfect companion Basic familiarity with C C and Python programming is a prerequisite however no prior knowledge of microcontrollers is necessary to get started with this book **Creative DIY**

Microcontroller Projects with TinyGo and WebAssembly Tobias Theel,2021-05-14 Explore embedded programming and get hands on with real world embedded projects relating to IoT low powered devices and other complex systems using TinyGo and WebAssembly Key FeaturesBuild creative embedded apps with TinyGo using low powered devices and microcontrollersUnderstand the practicality involved in integrating hardware and sensors while programming them using TinyGoUse TinyGo in modern browsers to display embedded applications statistics on WebAssembly dashboardsBook Description While often considered a fast and compact programming language Go usually creates large executables that are difficult to run on low memory or low powered devices such as microcontrollers or IoT TinyGo is a new compiler that allows developers to compile their programs for such low powered devices As TinyGo supports all the standard features of the Go programming language you won t have to tweak the code to fit on the microcontroller This book is a hands on guide packed full of interesting DIY projects that will show you how to build embedded applications You will learn how to program sensors and work with microcontrollers such as Arduino UNO and Arduino Nano IoT 33 The chapters that follow will show you how to develop multiple real world embedded projects using a variety of popular devices such as LEDs 7 segment displays and timers Next you will progress to build interactive prototypes such as a traffic lights system touchless hand wash timer and more As you advance you ll create an IoT prototype of a weather alert system and display those alerts on the TinyGo WASM dashboard Finally you will build a home automation project that displays stats on the TinyGo WASM dashboard By the end of this microcontroller book you will be equipped with the skills you need to build real world embedded projects using the power of TinyGo What you will learnDiscover a variety of TinyGo features and capabilities while programming your embedded devicesExplore how to use display devices to present your dataFocus on how to make TinyGo interact with multiple sensors for sensing temperature humidity and pressureProgram hardware devices such as Arduino Uno and Arduino Nano IoT 33 using TinyGoUnderstand how TinyGo works with GPIO ADC I2C SPI and MQTT network protocolsBuild your first TinyGo IoT and home automation prototypesIntegrate TinyGo in modern browsers using WebAssemblyWho this book is for If you are a Go developer who wants to program low powered devices and hardware such as Arduino UNO and Arduino Nano IoT 33 or if you are a Go developer who wants to extend your knowledge of using Go with WebAssembly while programming Go in the browser then this book is for you Go hobbyist programmers who are interested in learning more

about TinyGo by working through the DIY projects covered in the book will also find this hands on guide useful *Digital System Design* Dawoud Shenouda Dawoud,R. Peplow,2010-04-10 Today embedded systems are widely deployed in just about every piece of machinery from toasters to spacecrafts and 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 these current goals the designer must be aware of 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 Digital System Design concentrates on the use of a 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 microcontrollers and is ideal for undergraduate students and engineers that are working in the field of digital system design **Embedded Computing and Mechatronics with the PIC32 Microcontroller** Kevin Lynch,Nicholas Marchuk,Matthew Elwin,2015-12-03 For the first time in a single reference this book provides the beginner with a coherent and logical introduction to the hardware and software of the PIC32 bringing together key material from the PIC32 Reference Manual Data Sheets XC32 C Compiler User s Guide Assembler and Linker Guide MIPS32 CPU manuals and Harmony documentation This book also trains you to use the Microchip documentation allowing better life long learning of the PIC32 The philosophy is to get you started quickly but to emphasize fundamentals and to eliminate magic steps that prevent a deep understanding of how the software you write connects to the hardware Applications focus on mechatronics microcontroller controlled electromechanical systems incorporating sensors and actuators To support a learn by doing approach you can follow the examples throughout the book using the sample code and your PIC32 development board The exercises at the end of each chapter help you put your new skills to practice Coverage includes A practical introduction to the C programming language Getting up and running quickly with the PIC32 An exploration of the hardware architecture of the PIC32 and differences among PIC32 families Fundamentals of embedded computing with the PIC32 including the build process time and memory efficient programming and interrupts A peripheral reference with extensive sample code covering digital input and output counter timers PWM analog input input capture watchdog timer and communication by the parallel master port SPI I2C CAN USB and UART An introduction to the Microchip Harmony programming framework Essential topics in mechatronics including interfacing sensors to the PIC32 digital signal processing theory of operation and control of brushed DC motors motor sizing and gearing and other actuators such as stepper motors RC servos and brushless DC motors For more information on the book and to download free sample code please visit <http://www.nu32.org> The Microcontroller Idea

Book Jan Axelson,1997 A hands on introduction to microcontroller project design with dozens of example circuits and programs Presents practical designs for use in data loggers controllers and other small computer applications Example circuits and programs in the book are based on the popular 8052 BASIC microcontroller whose on chip BASIC programming language makes it easy to write run and test your programs With over 100 commands instructions and operators the BASIC 52 interpreter can do much more than other single chip BASICs Its abilities include floating point math string handling and special commands for storing programs in EPROM EEPROM or battery backed RAM **The Microcontroller Application Cookbook** Matt Gilliland,2002-07 Volume 2 in the set *Open-Source Robotics and Process Control Cookbook* Lewin Edwards,2005 Applies affordable and popular open source tools to the burgeoning and exciting world of robotics for the first time ever in one book **Design with PIC Microcontrollers** John B. Peatman,2003 **Virtual Serial Port Cookbook** Joe Pardue,2007 This is a cookbook for communicating between a PC and a Microcontroller using the FTDI FT232R USB UART IC and has lots of software and hardware examples The code is in C and Visual Basic Express allowing you to build Graphical User Interfaces and add Serial Port functions to create communications programs Part 1 Serial Port via USB Made Almost Easy In the first section you will learn the basics of serial communications using a USB UART bridge You will further learn to write a simple terminal program in C and Visual Basic Express NET Part 2 PC to Microcontroller Conversations In the second section you will build on what you have learned and get into more details about GUI programming using the SerialPort class and some useful software tools such as XML You will bring it all together by building a Developer Terminal which will have most of the bells and whistles that you would want for communicating between a PC and a microcontroller You will end this section with some neat hardware experiments Part 3 The FTDI FT232R In the final section you will chuck the serial port paradigm and communicate directly with the FT232R You will learn how to use the Smiley Micros port of the FTDI D2XX driver you will do some more hardware experiments bit banging the BBUSB pins and finally you will build a software programmer for the FT232R SD Card Projects Using the PIC Microcontroller Dogan Ibrahim,2010-05-14 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

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