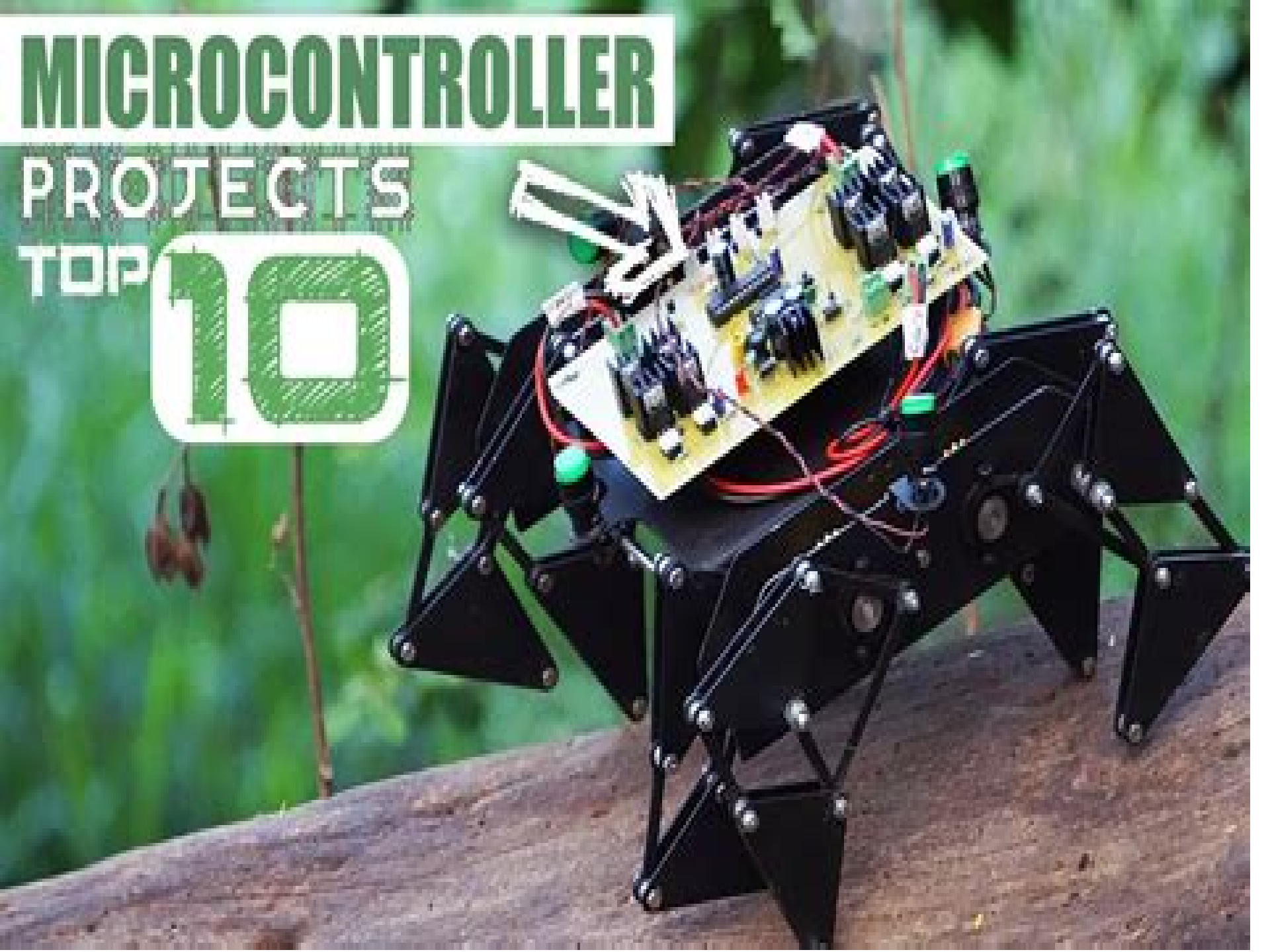




# MICROCONTROLLER

## PROJECTS

### TOP

# 10

# Pic Microcontroller Based Projects

**Dave W. Smith**



## **Pic Microcontroller Based Projects:**

*PIC Microcontroller Projects in C* Dogan Ibrahim, 2014-04-08 Extensively revised and updated to encompass the latest developments in the PIC 18FXXX series this book demonstrates how to develop a range of microcontroller applications through a project based approach After giving an introduction to programming in C using the popular mikroC Pro for PIC and MPLAB XC8 languages this book describes the project development cycle in full The book walks you through fully tried and tested hands on projects including many new advanced topics such as Ethernet programming digital signal processing and RFid technology This book is ideal for engineers technicians hobbyists and students who have knowledge of the basic principles of PIC microcontrollers and want to develop more advanced applications using the PIC18F series This book Includes over fifty projects which are divided into three categories Basic Intermediate and Advanced New projects in this edition Logic probe Custom LCD font design Hi Lo game Generating various waveforms in real time Ultrasonic height measurement Frequency counter Reaction timer GPS projects Closed loop ON OFF temperature control Bluetooth projects master and slave RFid projects Clock using Real time clock RTC chip RTC alarm project Graphics LCD GLCD projects Barometer thermometer altimeter project Plotting temperature on GLCD Ethernet web browser based control Ethernet UDP based control Digital signal processing Low Pass Filter design Automotive LIN bus project Automotive CAN bus project Multitasking projects using both cooperative and Round robin scheduling Unipolar stepper motor projects Bipolar stepper motor projects Closed loop ON OFF DC motor control A clear introduction to the PIC 18FXXX microcontroller s architecture Covers developing wireless and sensor network applications SD card projects and multi tasking all demonstrated with the block and circuit diagram program description in PDL program listing and program description Includes more than 50 basic intermediate and advanced projects

**PIC Basic Projects** Dogan Ibrahim, 2011-02-24

Covering the PIC BASIC and PIC BASIC PRO compilers PIC Basic Projects provides an easy to use toolkit for developing applications with PIC BASIC Numerous simple projects give clear and concrete examples of how PIC BASIC can be used to develop electronics applications while larger and more advanced projects describe program operation in detail and give useful insights into developing more involved microcontroller applications Including new and dynamic models of the PIC microcontroller such as the PIC16F627 PIC16F628 PIC16F629 and PIC12F627 PIC Basic Projects is a thoroughly practical hands on introduction to PIC BASIC for the hobbyist student and electronics design engineer Packed with simple and advanced projects which show how to program a variety of interesting electronic applications using PIC BASIC Covers the new and powerful PIC16F627 16F628 PIC16F629 and the PIC12F627 models

**PIC Projects and Applications using C**

David W Smith, 2012-12-02 PIC Projects and Applications Using C details how to program the PIC microcontroller in the C language The book takes a learn by doing approach with applications covering topics such as inputs outputs keypads alphanumeric displays analogue to digital conversion radio transmitters and receivers data EEPROM interrupts and timing

To aid debugging the book provides a section detailing the use of the simulator and in circuit debugger With this book you will learn How to program the PIC microcontroller in C Techniques for using the simulator and debuggers to find faults on your code The ins and outs of interfacing circuits such as radio modules and liquid crystal displays How to use the PIC on board functions such as interrupts and timing modules and make analogue measurements Relevant parts of the language are introduced and explained when required for those new to the subject Core principles are introduced gradually for self paced learning Explains how and why a software program works and how to alter and expand the code

**Microcontroller-Based Temperature Monitoring and Control** Dogan Ibrahim,2002-08-05 Microcontroller Based Temperature Monitoring and Control is an essential and practical guide for all engineers involved in the use of microcontrollers in measurement and control systems The book provides design principles and application case studies backed up with sufficient control theory and electronics to develop your own systems It will also prove invaluable for students and experimenters seeking real world project work involving the use of a microcontroller Techniques for the application of microcontroller based control systems are backed up with the basic theory and mathematics used in these designs and various digital control techniques are discussed with reference to digital sample theory The first part of the book covers temperature sensors and their use in measurement and includes the latest non invasive and digital sensor types The second part covers sampling procedures control systems and the application of digital control algorithms using a microcontroller The final chapter describes a complete microcontroller based temperature control system including a full software listing for the programming of the controller Provides practical guidance and essential theory making it ideal for engineers facing a design challenge or students devising a project Includes real world design guides for implementing a microcontroller based control systems Requires only basic mathematical and engineering background as the use of microcontrollers is introduced from first principles

Advanced PIC Microcontroller Projects in C Dogan Ibrahim,2011-08-30 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

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 DescriptionWe 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 *Using LEDs, LCDs and GLCDs in Microcontroller Projects* Dogan Ibrahim,2012-08-22 Describing the use of displays in microcontroller based projects the author makes extensive use of real world tested projects The complete details of each project are given including the full circuit diagram and source code The author explains how to program microcontrollers in C language with LED LCD and GLCD displays and gives a brief theory about the operation advantages and disadvantages of each type of display Key features Covers topics such as displaying text on LCDs scrolling text on LCDs displaying graphics on GLCDs simple GLCD based games environmental monitoring using GLCDs e g temperature displays Uses C programming throughout the book the basic principles of programming using C language and introductory information about PIC microcontroller architecture will also be provided Includes the highly popular PIC series of microcontrollers using the medium range PIC18 family of microcontrollers in the book Provides a detailed explanation of

Visual GLCD and Visual TFT with examples Companion website hosting program listings and data sheets Contains the extensive use of visual aids for designing LED LCD and GLCD displays to help readers to understand the details of programming the displays screen shots tables illustrations and figures as well as end of chapter exercises Using LEDs LCDs and GLCDs in Microcontroller Projects is an application oriented book providing a number of design projects making it practical and accessible for electrical electronic engineering and computer engineering senior undergraduates and postgraduates Practising engineers designing microcontroller based devices with LED LCD or GLCD displays will also find the book of great use

**PIC Microcontroller Project Book** John Iovine, 2004-04-19 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product This completely updated version of the best selling PiC Microcontroller Project Book boasts updated software many new projects and comprehensive coverage of the new PIC Basic Pro version of the controller The PIC microcontroller is enormously popular both in the U S and abroad The first edition of this book was a tremendous success because of that However in the 4 years that have passed since the book was first published the electronics hobbyist market has become more sophisticated Many users of the PIC are now comfortable shelling out the 250 for the price of the Professional version of the PIC Basic the regular version sells for 100 This new edition is fully updated and revised to include detailed directions on using both versions of the microcontroller with no nonsense recommendations on which is better served in different situations

**PIC Microcontrollers: Know It All** Lucio Di Jasio, Tim Wilmshurst, Dogan Ibrahim, John Morton, Martin P. Bates, Jack Smith, David W Smith, Chuck Hellebuyck, 2007-07-30 The Newnes Know It All Series takes the best of what our authors have written over the past few years and creates a one stop reference for engineers involved in markets from communications to embedded systems and everywhere in between PIC design and development a natural fit for this reference series as it is one of the most popular microcontrollers in the world and we have several superbly authored books on the subject This material ranges from the basics to more advanced topics There is also a very strong project basis to this learning The average embedded engineer working with this microcontroller will be able to have any question answered by this compilation He she will also be able to work through real life problems via the projects contained in the book The Newnes Know It All Series presentation of theory hard fact and project based direction will be a continual aid in helping the engineer to innovate in the workplace

Section I An Introduction to PIC Microcontrollers Chapter 1 The PIC Microcontroller Family Chapter 2 Introducing the PIC 16 Series and the 16F84A Chapter 3 Parallel Ports Power Supply and the Clock Oscillator Section II Programming PIC Microcontrollers using Assembly Language Chapter 4 Starting to Program An Introduction to Assembler Chapter 5 Building Assembler Programs Chapter 6 Further Programming Techniques Chapter 7 Prototype Hardware Chapter 8 More PIC Applications and Devices Chapter 9 The PIC 1250x Series 8 pin PIC microcontrollers Chapter 10 Intermediate Operations using the PIC 12F675 Chapter 11 Using Inputs Chapter 12 Keypad Scanning Chapter 13

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 Chapter 25 Programming Loops  
 Chapter 26 More Loops  
 Chapter 27 NUMB3RS  
 Chapter 28 Interrupts  
 Chapter 29 Taking a Look under the Hood  
 Over 900 pages of practical hands on content in one book  
 Huge market as of November 2006  
 Microchip Technology Inc a leading provider of microcontroller and analog semiconductors produced its 5 BILLIONth PIC microcontroller  
 Several points of view giving the reader a complete 360 of this microcontroller  
**PIC in Practice** David W Smith, 2013-07-23  
 PIC in Practice is a graded course based around the practical use of the PIC microcontroller through project work  
 Principles are introduced gradually through hands on experience enabling students to develop their understanding at their own pace  
 Dave Smith has based the book on his popular short courses on the PIC for professionals students and teachers at Manchester Metropolitan University  
 The result is a graded text formulated around practical exercises which truly guides the reader from square one  
 The book can be used at a variety of levels and the carefully graded projects make it ideal for colleges schools and universities  
 Newcomers to the PIC will find it a painless introduction whilst electronics hobbyists will enjoy the practical nature of this first course in microcontrollers  
 PIC in Practice introduces applications using the popular 16F84 device as well as the 16F627 16F877 12C508 12C629 and 12C675  
 In this new edition excellent coverage is given to the 16F818 with additional information on writing and documenting software  
 Gentle introduction to using PICs for electronic applications  
 Principles and programming introduced through graded projects  
 Thoroughly up to date with new chapters on the 16F818 and writing and documenting programs  
**PIC Microcontroller Project Book** John Iovine, 2000  
 A true beginner s guide ot the popular PIC microcontroller including 12 projects to build  
*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 *Advanced PIC Microcontroller Projects in C* Dogan Ibrahim,2008 *PIC in Practice* David W Smith,2006-01-16 PIC in Practice is a graded course based around the practical use of the PIC microcontroller through project work Principles are introduced gradually through hands on experience enabling students to develop their understanding at their own pace Dave Smith has based the book on his popular short courses on the PIC for professionals students and teachers at Manchester Metropolitan University The result is a graded text formulated around practical exercises which truly guides the reader from square one The book can be used at a variety of levels and the carefully graded projects make it ideal for colleges schools and universities Newcomers to the PIC will find it a painless introduction whilst electronics hobbyists will enjoy the practical nature of this first course in microcontrollers PIC in Practice introduces applications using the popular 16F84 device as well as the 16F627 16F877 12C508 12C629 and 12C675 In this new edition excellent coverage is given to the 16F818 with additional information on writing and documenting software Gentle introduction to using PICs for electronic applications Principles and programming introduced through graded projects Thoroughly up to date with new chapters on the 16F818 and writing and documenting programs

*Programming and Customizing the PIC Microcontroller* Myke Predko,2007-05-22 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 *Practical PIC Microcontroller Projects* R. A. Penfold,1999 This handbook covers a wide range of PIC based projects including such things as digitally controlled power supplies transistor checkers a simple capacitance meter reaction tester digital dice digital locks a stereo audio level meter and MIDI pedals for use with electronic music systems **123 PIC Microcontroller**

**Experiments for the Evil Genius** Myke Predko,2005-07-12 Publisher s Note Products purchased from Third Party sellers

are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product. Microchip continually updates its product line with more capable and lower cost products. They also provide excellent development tools. Few books take advantage of all the work done by Microchip. 123 PIC Microcontroller Experiments for the Evil Genius uses the best parts and does not become dependent on one tool type or version to accommodate the widest audience possible. Building on the success of 123 Robotics Experiments for the Evil Genius as well as the unbelievable sales history of Programming and Customizing the PIC Microcontroller, this book will combine the format of the evil genius title with the following of the microcontroller audience for a sure fire hit.

**50 PIC Microcontroller Projects** Bert van Dam, 2010. This book contains 50 fun and exciting projects for PIC microcontrollers such as a laser alarm, USB teasing mouse, egg timer, youth repellent, sound switch, capacitive liquid level gauge, finger in the water sensor, guarding a room using a camera, mains light dimmer, 110/240 volts talking microcontroller and much more. You can use this book to build the projects for your own use. The clear explanations, schematics, and even pictures of each project make this a fun activity. For each project, the theory is discussed and why the project has been executed in that particular way. Several different techniques are discussed such as relay alternating current control, including mains, I2C, SPI, RS232, USB, pulse width modulation, rotary encoder, interrupts, infrared, analogue, digital conversion, and the other way around, 7 segment display, and even CAN bus.

PIC in Practice Dave W. Smith, 2006-01-01. This volume describes the PIC family of microcontrollers. Microcontrollers are designed for embedded applications in contrast to the microprocessors used in personal computers or other general purpose applications. Microcontrollers are used in automatically controlled products and devices such as automobile engine control systems, implantable medical devices, remote controls, office machines, appliances, power tools, and toys. This book is based around the practical use of the PIC microcontroller through project work. Principles are introduced gradually through hands on experience, enabling students to develop their understanding at their own pace.

**PIC Robotics: A Beginner's Guide to Robotics Projects Using the PIC Micro** John Iovine, 2004-01-02. Here's everything the robotics hobbyist needs to harness the power of the PICMicro MCU. In this heavily illustrated resource, author John Iovine provides plans and complete parts lists for 11 easy to build robots, each with a PICMicro brain. The expertly written coverage of the PIC Basic Computer makes programming a snap and lots of fun.

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