

**Second Edition**

# **PROGRAMMING AND CUSTOMIZING THE PICAXE<sup>TM</sup> MICROCONTROLLER**

David Lincoln



# Programming And Customizing The Picaxe Microcontroller

**David Lincoln**



## **Programming And Customizing The Picaxe Microcontroller:**

Programming and Customizing the PICAXE Microcontroller 2/E David Lincoln, 2010-12-06 UNLEASH THE POWER OF THE PICAXE The PICAXE is a powerful and easy to use processor capable of highly sophisticated projects without the complexities and high costs of alternative chips Beginners can produce tangible results within minutes and experienced users can achieve truly professional results Programming and Customizing the PICAXE Microcontroller Second Edition has been fully updated for the latest hardware and software upgrades and shows you step by step how to take full advantage of all the capabilities of the PICAXE and build your own control projects This practical guide is packed with helpful illustrations detailed examples and do it yourself experiments Perfect for beginners and students the book also contains advanced information for more experienced programmers hobbyists manufacturers and research institutions Programming and Customizing the PICAXE Microcontroller Second Edition covers PICAXE architecture The latest chips including M2 M X XI and X2 series Windows Mac and UNIX platforms Interfacing and input output techniques BASIC programming and compilers PICAXE arithmetic and data conversion Dozens of ready to run projects Useful routines to plug into your own designs Hands on projects include LED and LCO display control Motor control Water detector Bipolar transistor output driver Interfacing MOSFETs to a PICAXE Radio control servo motor Infrared wireless links Telephone intercom Dual temperature display Radio frequency identification RFID reader display Memory and I O expansion Real time clock calendar Data logger Robotic components Many more

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*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

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how to do it This well illustrated resource offers 25 complete home automation projects that require only basic household tools and the instructions found within its pages Publisher *The Enigma of Electronic Empowerment* Pasquale De Marco, Welcome to the captivating world of microcontrollers where innovation and creativity converge to unlock endless possibilities In *The Enigma of Electronic Empowerment* we invite you to embark on a journey that will transform your understanding of microcontrollers and empower you to bring your electronic dreams to life This first to market book is your comprehensive guide to the remarkable PICAXE microcontroller Officially endorsed by the manufacturer it is the ultimate resource for hobbyists technology enthusiasts and anyone curious about the fascinating realm of microcontrollers With its conversational tone and easy to understand language this book is designed to make the complex world of microcontrollers accessible to all *The Enigma of Electronic Empowerment* begins by introducing you to the captivating history and evolution of microcontrollers From their humble beginnings to their widespread adoption you will gain insights into how these tiny devices have revolutionized the field of electronics Discover the advantages of using microcontrollers in various applications and explore the wide range of possibilities they offer As you delve deeper into the book you will be guided through the specifics of the PICAXE microcontroller Learn how to set up your development environment navigate the PICAXE programming language and upload your first program Troubleshooting tips and techniques will ensure a smooth and seamless experience as you embark on your microcontroller journey With a focus on hands on learning *The Enigma of Electronic Empowerment* presents a series of beginner friendly projects that will ignite your creativity and build your skills From LED blinking and temperature monitoring to motor control and robotics each project provides step by step instructions and practical insights to help you bring your ideas to life But this book doesn't stop at the basics It takes you on a journey into the realm of advanced PICAXE projects showcasing the limitless possibilities of microcontroller technology Explore wireless communication Internet of Things IoT applications data logging and real time clock functions Push the boundaries of what is possible and unleash your imagination *The Enigma of Electronic Empowerment* is more than just a book it's a gateway to a world of electronic empowerment Join us on this thrilling adventure as we unravel the enigma of microcontrollers and inspire you to create innovate and explore The power to transform your ideas into reality is in your hands are you ready to embrace it [Nuts & Volts](#) ,2005 **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio,2005-05 [Indian National Bibliography](#) B. S. Kesavan,2012-05 [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



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