



PICAXE Microcontroller Projects for the Evil Genius

By Ron Hackett



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PICAXE Microcontroller Projects for the Evil Genius By Ron Hackett

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
- USB-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.

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Editorial Review

About the Author

Ron Hackett has more than 30 years' experience in the fields of education and psychology. He has taught mathematics, psychology, and computer science courses at high school and college levels, and in-service courses for teachers in the use of microcomputers in the classroom setting. Ron has published 20 PICAXE-related articles for *Nuts & Volts* and *SERVO* magazines. He also designed the "Brain-Alpha" PC board used in the popular SERVO TankBot robot. His website is www.JRHackett.net.

Users Review

From reader reviews:

Donna Wood:

The experience that you get from PICAXE Microcontroller Projects for the Evil Genius is the more deep you searching the information that hide in the words the more you get serious about reading it. It does not mean that this book is hard to know but PICAXE Microcontroller Projects for the Evil Genius giving you buzz feeling of reading. The copy writer conveys their point in certain way that can be understood simply by anyone who read that because the author of this publication is well-known enough. That book also makes your own personal vocabulary increase well. So it is easy to understand then can go to you, both in printed or e-book style are available. We recommend you for having this specific PICAXE Microcontroller Projects for the Evil Genius instantly.

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