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PIC Microcontroller Programming: In 10 Captivating Lessons (JAL)



Synopsis

Using the lessons in this book you learn how to program a microcontroller. You'll be using JAL, a free but extremely powerful programming language for PIC microcontrollers, which enjoys great popularity in the hobby world. Starting out from scratch virtually, you slowly build up the knowledge. No previous knowledge is needed: anyone can get started with this book. Assuming you have absorbed all lessons - meaning you have actually completed all the exercises - you should be confident to write PIC microcontroller programs, as well as read and understand programs written by other people. You learn the function of JAL commands such as include, pin, delay, forever loop, while loop, case, exit loop, repeat until, if then, as well as the use of functions, procedures and timer- and port interrupts. You make an LED blink, build a time switch, measure a potentiometer's wiper position, produce sounds, suppress contact bounce, and control the brightness of an LED. And of course you learn to debug, meaning: how to spot and fix errors in your programs. You learn to recognize various components including the PIC microcontroller, potentiometer and quartz crystal, and how to wire up a PIC microcontroller and effectively link it to your PC. A breadboard is used for the purpose, allowing you to easily modify the component arrangement for further experimenting. The companion software with this book can be downloaded free of charge, including the JAL programming language. In addition, you may order a kit of parts so you don't have to go shopping for the required components. Especially for a beginner, this is the easiest way to start with this unique pastime.

Book Information

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Customer Reviews

The book introduce JAL, very easy and give some useful examples. JAL is new, but very easy to

learn and simulate.

written rather clearly. I prefer to use PIC BASIC or JAL but its good to know multiple languages and compilers

Well written, code works well...

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