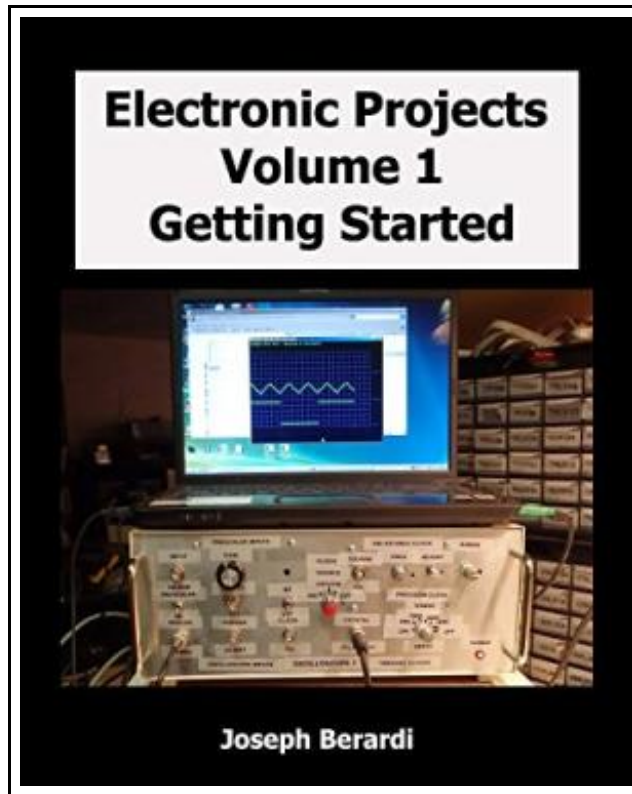


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Reviews

An exceptional publication as well as the font employed was exciting to see. it was actually writtern extremely flawlessly and helpful. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Dominic Collins)

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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Electronic Projects Volume 1: Getting Started by Joseph Berardi There is a tutorial on how an oscilloscope works and the different types of waveforms that can be observed. The book starts out with the fundamentals of passive electronic components including: resistors, capacitors, inductors and transformers. More sophisticated components are presented with a comparison of different possible components used for making the circuits for a digital oscilloscope including: diodes, LED Displays, op-amps, timer integrated circuits, TTL logic family, voltage regulators, analog-to-digital converters and SRAM memory. There is a tutorial on the application of a human interface for controlling an electronic project. The first several projects are the building blocks for making your own oscilloscope including the following projects: a 5V DC Power Supply, variable DC Power Supply, 555-based oscillator and a voltage-controlled oscillator (VCO). Each project includes the design theory, schematics, parts list, PCB artwork and test results or corrections required to make the project work. The book culminates with several oscilloscope projects including a simple easy to build Oscilloscope 2 Student version project, then onto a much more sophisticated Oscilloscope 5 project broken down into four individual project boards. The Oscilloscope 2 Student Version and Oscilloscope 5 projects are standalone not requiring a computer, microcontroller or any software programming. The Oscilloscope 6 project takes advantage of the Arduino Uno Rev 3 board which is an embedded controller. The Uno board is connected to a PC computer for the human interface making the project building effort minimal compared to the all hardware old-school way. The project software code listing is included for the FreeBASIC PC host software and the Arduino sketch embedded controller software running on the Arduino Uno Rev 3 board. This...



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