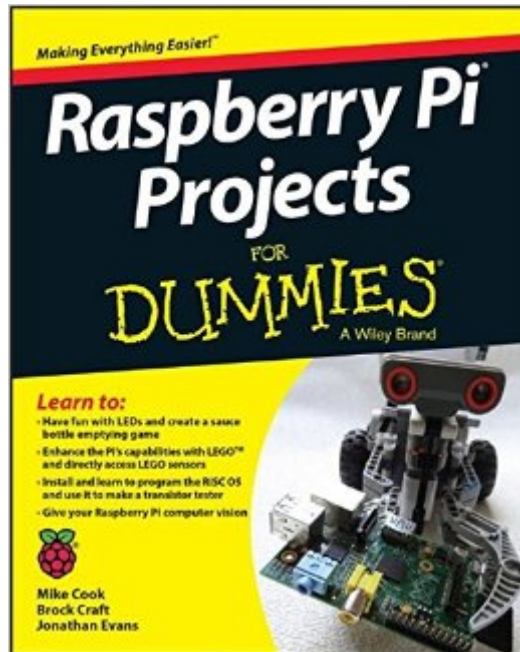


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# Raspberry Pi Projects For Dummies



## Synopsis

Join the Raspberry revolution with these fun and easy Pi projects The Raspberry Pi has opened up a whole new world of innovation for everyone from hardware hackers and programmers to students, hobbyists, engineers, and beyond. Featuring a variety of hands-on projects, this easy-to-understand guide walks you through every step of the design process and will have you creating like a Raspberry Pi pro in no time. You'll learn how to prepare your workspace, assemble the necessary tools, work with test equipment, and find your way around the Raspberry Pi before moving on to a series of fun, lively projects that brings some power to your plain ol' Pi. Introduces Raspberry Pi basics and gives you a solid understanding of all the essentials you'll need to take on your first project Includes an array of fun and useful projects that show you how to do everything from creating a magic light wand to enhancing your designs with Lego sensors, installing and writing games for the RISC OS, building a transistor tester, and more Provides an easy, hands-on approach to learning more about electronics, programming, and interaction design for Makers and innovators of all ages Bring the power of Pi to your next cool creation with Raspberry Pi Projects For Dummies!

## Book Information

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## Customer Reviews

The first four chapters of the book cover the selection of a suitable Raspberry Pi, its essential accessories, setting it up and the tools you will need to build the projects. This is ideal if you have never used one before nor constructed a computing hardware project. The first project is

comparatively gentle involving a tilt switch in a bottle and some interesting screen graphics. From then on the projects get increasingly more involved. This book covers an enormous range of topics including: tilt switches, simple LEDs, Neopixel RGB LEDs, a matrix of switches, analogue to digital conversion, reading temperatures with a TMP36 and a DS18B20, using a MCP3008 A-to-D SPI chip, logging data to the Cloud, dynamic web pages, using webcams and the Pi camera module, computer vision with motion detection, image recognition, colour detection, triggering sounds from visual sensing, interfacing with LEGO MINDSTORMS, IR transmitters, RISC OS coding including GPIO, BBC BASIC and building a transistor tester. Several programming languages are used in the example programs: Python, C, BBC BASIC and assembler. I've been using Arduinos for about four years and the Raspberry Pi since it first appeared three and a half years ago. I've got quite a library of Raspberry Pi texts and have designed and built several projects of my own. So far I've not used the SPI bus nor connected WS2812b LED devices to a Pi. I've only programmed the Pi using Python and accessed the GPIO pins with Ben Croston's GPIO library. To check out this new book I thought I would follow a couple of the projects to fill in some of the gaps in my knowledge.

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