Raspberry Pi Projects For Dummies

By Mike Cook, Jonathan Evans, Brock Craft

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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!*

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Editorial Review

From the Back Cover

Learn to:

- Have fun with LEDs and create a sauce bottle emptying game
- Enhance the Pi's capabilities with LEGO™ and directly access LEGO sensors
- Install and learn to program the RISC OS and use it to make a transistor tester
- Give your Raspberry Pi computer vision

Ready to serve up some tasty Raspberry Pi projects? Here's how to do it yourself!

So, you have your Raspberry Pi up and running and can't wait to do something with it? Here's what you've been looking for! This easy-to-follow guide walks you through every step of the design process, from preparing the workspace to working with test equipment. You'll learn to create some fun and useful projects that will inspire even more ideas.

- **Understand the lay of the land** — get acquainted with Raspberry Pi basics, prepare your workspace, and gather your tools
- **Master techniques** — learn about soldering and desoldering, GPIO access, and signal-level conversion
- **Meet LEDs and switches** — discover how to build games using the Light Fantastic Color Button Grid and a sauce bottle emptying race game
- **Explore analog conversion** — create a simple analog-to-digital converter
- **More fun and games** — work with cloud service providers, build LEGO projects controlled by the Pi, and make a Connect Four computer vision game

Open the book and find:

- A list of tools you'll need plus others you might want
- Steps for creating games with color
- Tips for choosing cloud service providers
- Web server and database basics for the Raspberry Pi
- What RISC OS has to offer
- Cool LEGO projects to build
- Ten suppliers of components and tools

About the Author

Mike Cook is a lifelong electronics buff, a former lecturer in physics at Manchester Metropolitan University, and the author of more than 300 articles on computing and electronics. You'll often find him monitoring technology forums under the moniker Grumpy Mike. **Brock Craft** is a lecturer in creative coding in the Department of Computing at Goldsmiths, University of London, and a senior tutor at the Royal College of Art. He is a specialist in physical computing, data visualization, and the Internet of Things. **Jonathan Evans** is a distinguished IT professional with more than 20 years of experience. He enjoys sharing his ideas at http://projects.privateeyepi.com, where he continues to explore the endless possibilities of this computing

platform.

Users Review

From reader reviews:

William Harris:

Do you one of people who can't read pleasant if the sentence chained inside straightway, hold on guys this specific aren't like that. This Raspberry Pi Projects For Dummies book is readable simply by you who hate the straight word style. You will find the data here are arrange for enjoyable looking at experience without leaving possibly decrease the knowledge that want to provide to you. The writer of Raspberry Pi Projects For Dummies content conveys the idea easily to understand by lots of people. The printed and e-book are not different in the written content but it just different in the form of it. So , do you continue to thinking Raspberry Pi Projects For Dummies is not loveable to be your top checklist reading book?

Edna Brooks:

Playing with family inside a park, coming to see the coastal world or hanging out with friends is thing that usually you could have done when you have spare time, then why you don't try matter that really opposite from that. One particular activity that make you not feeling tired but still relaxing, trilling like on roller coaster you are ride on and with addition associated with. Even you love Raspberry Pi Projects For Dummies, you are able to enjoy both. It is good combination right, you still desire to miss it? What kind of hang type is it? Oh occur its mind hangout folks. What? Still don't buy it, oh come on its called reading friends.

Earl Martinez:

What is your hobby? Have you heard this question when you got college students? We believe that that query was given by teacher to their students. Many kinds of hobby, Every person has different hobby. Therefore you know that little person including reading or as reading become their hobby. You need to understand that reading is very important and book as to be the point. Book is important thing to provide you knowledge, except your personal teacher or lecturer. You will find good news or update regarding something by book. Numerous books that can you take to be your object. One of them are these claims Raspberry Pi Projects For Dummies.

Laura Bradberry:

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