



# Learn Electronics with Raspberry Pi: Physical Computing with Circuits, Sensors, Outputs, and Projects

By Stewart Watkiss

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## Learn Electronics with Raspberry Pi: Physical Computing with Circuits, Sensors, Outputs, and Projects By Stewart Watkiss

Make a variety of cool projects using the Pi with programming languages like Scratch and Python, with no experience necessary. You'll learn how the Pi works, how to work with Raspbian Linux on the Pi, and how to design and create electronic circuits.

Raspberry Pi is everywhere, it's inexpensive, and it's a wonderful tool for teaching about electronics and programming. This book shows you how to create projects like an arcade game, disco lights, and infrared transmitter, and an LCD display. You'll also learn how to control Minecraft's Steve with a joystick and how to build a Minecraft house with a Pi, and even how to control a LEGO train with a Pi. You'll even learn how to create your own robot, including how to solder and even design a printed circuit board!

Learning electronics can be tremendous fun — your first flashing LED circuit is a reason to celebrate! But where do you go from there, and how can you move into more challenging projects without spending a lot of money on proprietary kits? *Learn Electronics with Raspberry Pi* shows you how to and a lot more.

### What You'll Learn

- Design and build electronic circuits
- Make fun projects like an arcade game, a robot, and a Minecraft controller
- Program the Pi with Scratch and Python

### Who This Book Is For

Makers, students, and teachers who want to learn about electronics and programming with the fun and low-cost Raspberry Pi.



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### **Editorial Review**

#### **About the Author**

Stewart Watkiss graduated from the University of Hull, United Kingdom, with a masters degree in electronic engineering. He has been a fan of Linux since first installing it on a home computer during the late 1990s. While working as a Linux system administrator, he was awarded Advanced Linux Certification (LPIC 2) in 2006, and created the Penguin Tutor website to help others learning Linux and working toward Linux certification.

Stewart is a big fan of the Raspberry Pi. He owns several Raspberry Pi computers that he uses to help to protect his home (Internet filter), provide entertainment (XBMC), and teach programming to his two children. He also volunteers as a STEM ambassador, going into local schools to help support teachers and teach programming to teachers and children.

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