Raspberry Pi Sensors

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Integrate sensors into your Raspberry Pi projects and let your powerful microcomputer interact with the physical world

About This Book

- Learn how to apply sensors to your Raspberry Pi board to create impressive interactive projects
- Dig deeper into your Raspberry Pi using Linux and Python
- Get to grips with a range of exciting libraries, including OpenCV, and use them to power your projects

Who This Book Is For

This book is perfect for hardware enthusiasts who want to develop amazing projects using Raspberry Pi. Some knowledge and experience working with Linux, C, and Python is a plus, but once you're set up to go, you'll be ready to push the creative capabilities of your Raspberry Pi even further.

What You Will Learn

- Set up your Raspberry Pi board and integrate it with powerful sensors
- Discover how to operate your Raspberry Pi by exploring its Linux-based OS
- Develop a deep understanding of your Raspberry Pi's GPIOs and access them through Python, C, and shell scripting
- Create an ultrasonic distance meter and use it to make an aid for visually impaired or blind people
- Interface a temperature-humidity sensor and photocells together with your Raspberry Pi to log the data
- Find out how to upload the data you collect online and receive regular notifications of irregularities
- Integrate OpenCV with your Raspberry Pi and learn how you can master the latest in image processing technology with the power of computer vision

In Detail

The tiny Raspberry Pi device contains the power to revolutionize the way we understand computing. Built with a Linux-based operating system, it is a tool that invites exploration and experimentation, and can be repurposed and integrated with other hardware and software to help create some truly exciting projects.

With Raspberry Pi Sensors you will learn how to get more from your Raspberry Pi and dive deeper into its engineering by exploring its Linux-based OS before learning how to develop and execute programs on it using Python and C. You'll then find a range of projects like creating your own ultrasonic sensor to monitor the atmosphere, connect your Raspberry Pi to the Internet so you can upload data online and use it as a launchpad to create Internet of Things based projects. Learn how to create your own image sensor using a simple USB camera and the innovative OpenCV library to perform motion detection.

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