



Raspberry Pi Home Automation with Arduino - Second Edition

Andrew K. Dennis

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Raspberry Pi Home Automation with Arduino - Second Edition Andrew K. Dennis
Unleash the power of the most popular microboards to build convenient, useful, and fun home automation projects

About This Book

- Revolutionize the way you automate your home by combining the power of the Raspberry Pi and Arduino
- Build simple yet awesome home automated projects using an Arduino and the Raspberry Pi
- Learn how to dynamically adjust your living environment with detailed step-by-step examples

Who This Book Is For

If you are new to the Raspberry Pi, the Arduino, or home automation and wish to develop some amazing projects using these tools, then this book is for you. Any experience in using the Raspberry Pi would be an added advantage.

What You Will Learn

- Set up the Raspberry Pi and the Cooking Hacks Arduino bridge shield
- Work with electronic components to build small circuits
- Develop applications that interact with your circuits
- Use thermistors, FSRs, and photoresistors to monitor and control your surroundings
- Communicate with your Raspberry Pi from an Arduino Uno via Ethernet
- Send yourself e-mail updates when a parcel arrives at your home
- Control your own mains power with a relay shield and even connect a motor to your Raspberry Pi
- Build a device that checks for damp/flooding using the Arduino bridge shield and Raspberry Pi

In Detail

Revolutionize the way you interact with your home and become part of the rapidly growing group of hobbyists and enthusiasts by combining the powerful Raspberry Pi with an Arduino board.

Starting with an introduction to the Raspberry Pi and Arduino boards you will set up your very own home automation system through a series of exciting projects, making your life a lot easier.

Build a thermostat, a Raspberry Pi control device, a parcel delivery detector, and a water and damp detector, and then move on to more complex projects including a motor mechanism to control your curtains.

By the end of this practical guide, you will be a confident user who can program, set up, and run a wide range of applications using both the Raspberry Pi and the Arduino.

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