Raspberry Pi Home Automation with Arduino - Second Edition

Andrew K. Dennis

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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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From reader reviews:

Katie Martinez:

This Raspberry Pi Home Automation with Arduino - Second Edition book is just not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is definitely information inside this guide incredible fresh, you will get information which is getting deeper a person read a lot of information you will get. That Raspberry Pi Home Automation with Arduino - Second Edition without we comprehend teach the one who reading it become critical in considering and analyzing. Don't always be worry Raspberry Pi Home Automation with Arduino - Second Edition can bring whenever you are and not make your carrier space or bookshelves' turn out to be full because you can have it with your lovely laptop even telephone. This Raspberry Pi Home Automation with Arduino - Second Edition having good arrangement in word in addition to layout, so you will not experience uninterested in reading.

Mary Todd:

Reading a publication tends to be new life style with this era globalization. With examining you can get a lot of information which will give you benefit in your life. With book everyone in this world can certainly share their idea. Guides can also inspire a lot of people. Lots of author can inspire all their reader with their story or perhaps their experience. Not only the storyplot that share in the textbooks. But also they write about the ability about something that you need example of this. How to get the good score toefl, or how to teach your young ones, there are many kinds of book that you can get now. The authors these days always try to improve their skill in writing, they also doing some investigation before they write to the book. One of them is this Raspberry Pi Home Automation with Arduino - Second Edition.

Tony Reed:

Spent a free time for you to be fun activity to try and do! A lot of people spent their leisure time with their family, or all their friends. Usually they performing activity like watching television, gonna beach, or picnic from the park. They actually doing same thing every week. Do you feel it? Do you need to something different to fill your personal free time/ holiday? Can be reading a book could be option to fill your totally free time/ holiday. The first thing you ask may be what kinds of guide that you should read. If you want to attempt look for book, may be the guide untitled Raspberry Pi Home Automation with Arduino - Second Edition can be excellent book to read. May be it can be best activity to you.

Bryant Davidson:

Playing with family in the park, coming to see the water world or hanging out with pals is thing that usually you could have done when you have spare time, and then why you don't try factor that really opposite from that. A single activity that make you not sensation tired but still relaxing, trilling like on roller coaster you already been ride on and with addition info. Even you love Raspberry Pi Home Automation with Arduino - Second Edition, you can enjoy both. It is fine combination right, you still desire to miss it? What kind of

hang type is it? Oh can occur its mind hangout fellas. What? Still don't have it, oh come on its referred to as reading friends.

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