

Arduino Home Automation Projects : Automate your Home using the powerful Arduino Platform (Community Experience Distilled)

By Marco Schwartz

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Automate your home using the powerful Arduino platform

About This Book

- Interface home automation components with Arduino
- Automate your projects to communicate wirelessly using XBee, Bluetooth and WiFi
- Build seven exciting, instruction-based home automation projects with Arduino in no time

Who This Book Is For

If you want to build your own home automation systems wirelessly using the Arduino platform, this is the book for you. You will need to have some basic experience in Arduino and general programming languages, such as C and C++ to understand the projects in this book.

What You Will Learn

- Connect home automation sensors to the Arduino platform
- Use the XBee technology to build low-power wireless motion sensors
- Interface a relay with Arduino to control devices in your home
- Utilize Wi-Fi to control a lamp remotely
- Employ Bluetooth and Arduino to measure the temperature remotely
- Send energy consumption data to the cloud
- Hack an existing home automation device using Arduino

In Detail

The Arduino platform is used by more than one million people around the world to prototype electronic systems. It is the perfect platform to use to build home automation systems, as it allows you to build your own motion sensors, control lamps remotely, and control preexisting home automation devices. The Arduino platform also allows you to build wireless home automation systems using well-known technologies such as Bluetooth and Wi-Fi.

This book shows you how to use the Arduino tiny microboard to live like a king. The book covers several projects you can perform using the Arduino platform. The first few projects comprise the basics of home automation, such as building a wireless motion sensor, controlling a lamp remotely, and building a Bluetooth temperature sensor. Then, this book dives into the Internet of Things, helping you get a clear understanding of how to send measured data to the cloud. The book will wrap up by showing you how to communicate and control an existing device and build your own home automation system.

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Editorial Review

About the Author

Marco Schwartz

Marco Schwartz is an electrical engineer, entrepreneur, and blogger. He has a Master's degree in Electrical Engineering and Computer Science from Supelec, France, and a Master's degree in Micro Engineering from EPFL, Switzerland. He has more than 5 years of experience working in the domain of electrical engineering. His interests gravitate around electronics, home automation, the Arduino and Raspberry Pi platforms, open source hardware projects, and 3D printing. He runs several websites based on Arduino, including the Open Home Automation website that is dedicated to building home automation systems using open source hardware. He has written another book on home automation and Arduino called Home Automation with Arduino, CreateSpace. He has also published a book on how to build Internet of Things projects with Arduino called Internet of Things with the Arduino Yun, Packt Publishing.

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