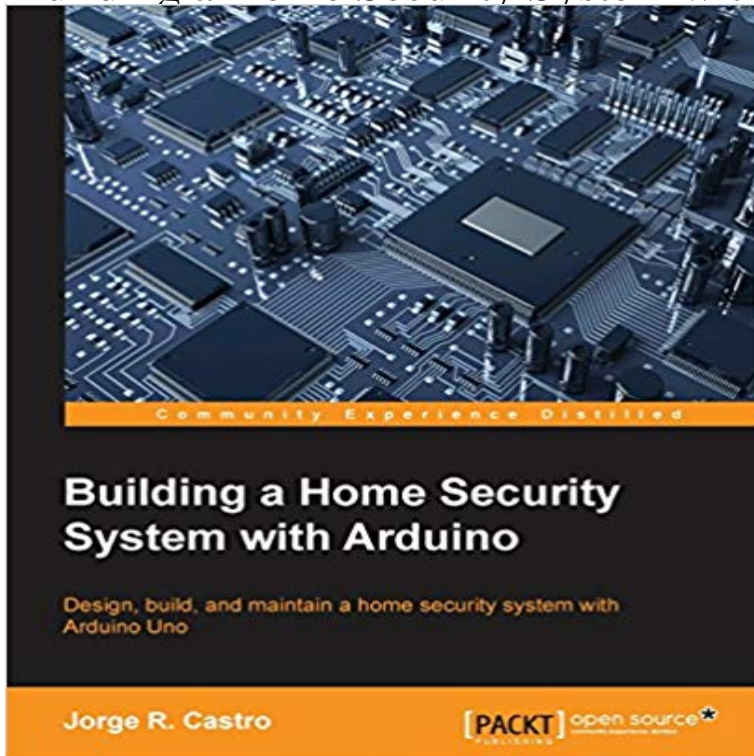


Building a Home Security System with Arduino



Design, build and maintain a home security system with Arduino Uno About This Book Learn what a security system is, how it works and create one for yourself Develop a security system by setting up security cameras and motion detector systems Manage and analyze all the data collected by the sensors from the security system, using a graphical application Who This Book Is For This book is for novice programmers and hobbyists who want to understand how Arduino can be used to program a home security system as well as to those who want to delve deeper into the world of Arduino. What You Will Learn Run cables and electricity to support home security infrastructure Connect Arduino to your programming environment Learn to interact with output devices alarms, locks, shutters Understand different parts of electronics circuit (MOSFET, resistor, capacitor) Integrate home monitoring and security notifications with monitoring systems Use logical level shifter with Arduino to send and receive data to and from Raspberry Pi In Detail Arduino is an open source micro-controller built on a single circuit board that is capable of receiving sensory input from the environment and controlling interactive physical objects. It is also a development environment that allows the writing of software to the board, and is programmed in the Arduino programming language. It is used for a variety of different purposes and projects, from simple projects such as building a thermostat, to more advanced ones such as robotics, web servers, seismographs, home security systems and synthesizers. This book will demonstrate how the Arduino can be used to develop a highly connected home security system by mobilizing a network of sensors which can feed alerts back to an Arduino when alarms are triggered. You will know the current state of security systems, well supported by

the designs that fit best for your environment. Also, we will see some current technologies such as NFC, Wi-Fi and Bluetooth, and will finally create a complete web interface that will allow us to remotely manage our system, and even send daily bulletins with the summary of activity. Towards the end, we will develop a wireless home security system by setting up security cameras and motion detectors (door and gate trips, temperature sensors). We will then set up a centralized remote access hub (powered by the Arduino) that allows sensors to connect to the wireless home network that can be viewed and interacted by the user. Style and approach A step-by-step guide with numerous examples focusing on providing the practical skills required to build home security applications using Arduino.

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