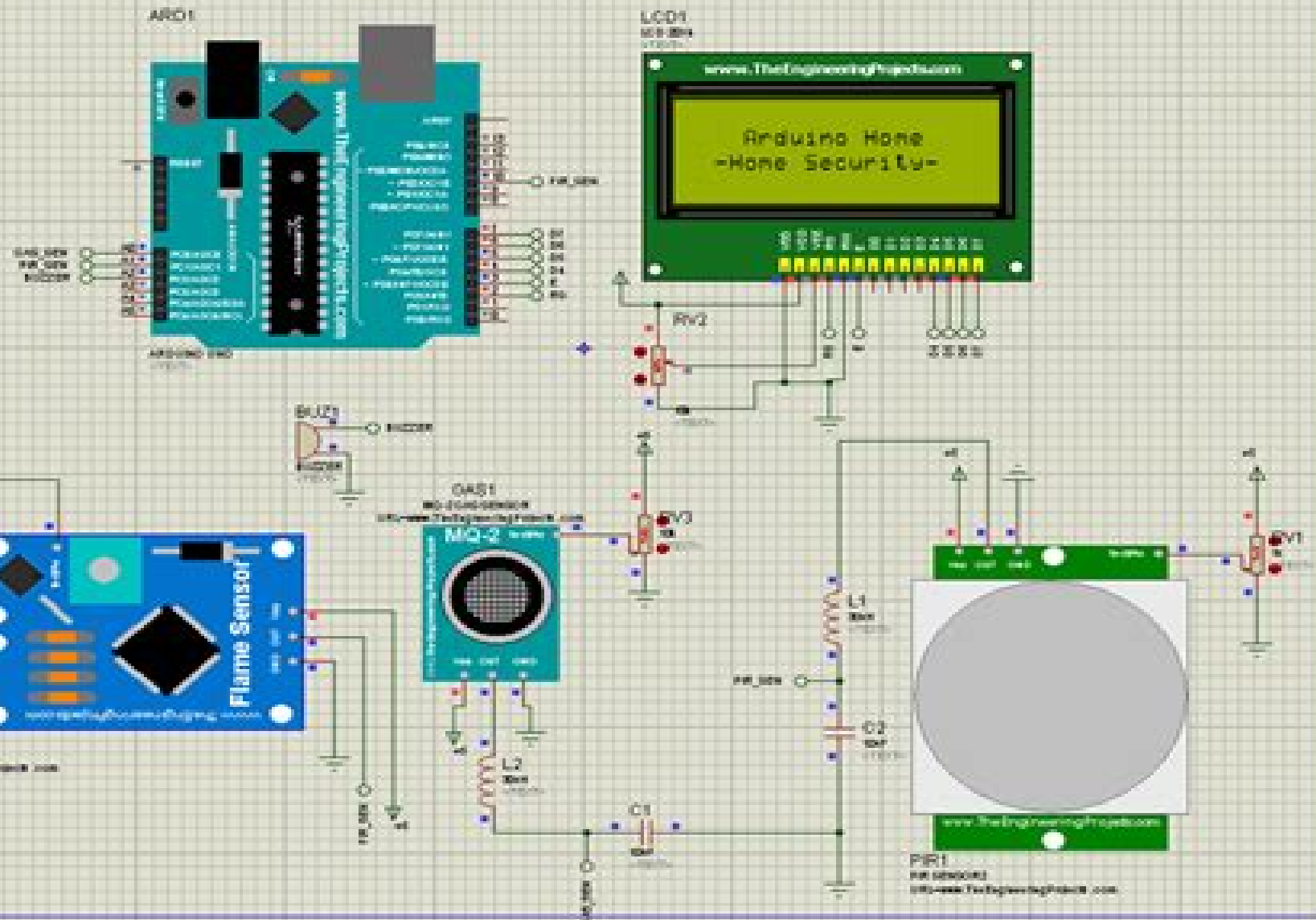


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Home Security System using Arduino



Building A Home Security System With Arduino

Robert Chin



Building A Home Security System With Arduino:

Building a Home Security System with Arduino Jorge R. Castro, 2015-08-31 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 ll 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

Building a Home Security System with BeagleBone Bill Pretty, 2013-12-17 Building a Home Security System with BeagleBone is a practical hands on guide for practical hands on people The book includes step by step instructions for assembling your own hardware on professionally manufactured PCB s and setting up the software on your system This book is for anyone who is interested in alarm systems and how they work for hobbyists and basement tinkerers who love to build things If you want to build the hardware described in this book you will need some basic soldering skills but all the parts are of the thru hole variety and are very easy to put together When it comes to software you can just run it as is but if you want to modify the code you will need knowledge of Java and IDEs

Building a Home Security

System with Raspberry Pi Matthew Poole, 2015-12-28 Build your own sophisticated modular home security system using the popular Raspberry Pi board About This Book This book guides you through building a complete home security system with Raspberry Pi and helps you remotely access it from a mobile device over the Internet It covers the fundamentals of interfacing sensors and cameras with the Raspberry Pi so that you can connect it to the outside world It follows a modular approach so that you can choose the modules and features you want for your customized home security system Who This Book Is For This book is for anyone who is interested in building a modular home security system from scratch using a Raspberry Pi board basic electronics sensors and simple scripts This book is ideal for enthusiastic novice programmers electronics hobbyists and engineering professionals It would be great if you have some basic soldering skills in order to build some of the interface modules What You Will Learn Understand the concepts behind alarm systems and intrusion detection devices Connect sensors and devices to the on board digital GPIO ports safely Monitor and control connected devices easily using Bash shell scripting Build an I O port expander using the I2C bus and connect sensors and anti tamper circuits Capture and store images using motion detectors and cameras Access and manage your system remotely from your mobile phone Receive intrusion alerts and images through your e mail Build a sophisticated multi zone alarm system In Detail The Raspberry Pi is a powerful low cost credit card sized computer which lends itself perfectly as the controller for a sophisticated home security system Using the on board interfaces available the Raspberry Pi can be expanded to allow the connection of a virtually infinite number of security sensors and devices The Raspberry Pi has the processing power and interfaces available to build a sophisticated home security system but at a fraction of the cost of commercially available systems Building a Home Security System with Raspberry Pi starts off by showing you the Raspberry Pi and how to set up the Linux based operating system It then guides you through connecting switch sensors and LEDs to the native GPIO connector safely and how to access them using simple Bash scripts As you dive further in you ll learn how to build an input output expansion board using the I2C interface and power supply allowing the connection of the large number of sensors needed for a typical home security setup In the later chapters of the book we ll look at more sophisticated topics such as adding cameras remotely accessing the system using your mobile phone receiving intrusion alerts and images by e mail and more By the end of the book you will be well versed with the use of Raspberry Pi to power a home based security system that sends message alerts whenever it is triggered and will be able to build a truly sophisticated and modular home security system You will also gain a good understanding of Raspberry Pi s ecosystem and be able to write the functions required for a security system Style and approach This easy to follow guide comprises a series of projects where every chapter introduces a new concept and at the end of the book all these concepts are brought together to create an entire home security system This book features clear diagrams and code every step of the way *Practical Arduino* Jonathan Oser, Hugh Blemings, 2011-01-26 Create your own Arduino based designs gain in depth knowledge of the architecture of Arduino and learn the user friendly

Arduino language all in the context of practical projects that you can build yourself at home Get hands on experience using a variety of projects and recipes for everything from home automation to test equipment Arduino has taken off as an incredibly popular building block among ubicomp ubiquitous computing enthusiasts robotics hobbyists and DIY home automation developers Authors Jonathan Oxer and Hugh Blemings provide detailed instructions for building a wide range of both practical and fun Arduino related projects covering areas such as hobbies automotive communications home automation and instrumentation Take Arduino beyond blink to a wide variety of projects from simple to challenging Hands on recipes for everything from home automation to interfacing with your car engine management system Explanations of techniques and references to handy resources for ubiquitous computing projects Supplementary material includes a circuit schematic reference introductions to a range of electronic engineering principles and general hints tips These combine with the projects themselves to make Practical Arduino Cool Projects for Open Source Hardware an invaluable reference for Arduino users of all levels You ll learn a wide variety of techniques that can be applied to your own projects

A DIY Smart Home Guide: Tools for Automating Your Home Monitoring and Security Using Arduino, ESP8266, and Android Robert Chin, 2020-03-27 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Design and build custom devices that work through your phone to control your home remotely Setting up a smart home can be costly intimidating and invasive This hands on guide presents you with an accessible and cheap way to do it yourself using free software that will enable your home and your mobile devices to communicate A DIY Smart Home Guide Tools for Automating Your Home Monitoring and Security Using Arduino ESP8266 and Android contains step by step plans for easy to build projects that work through your phone to control your home environment remotely All the projects in the book are geared towards helping you create a smart home with fun and useful examples such as wireless temperature and humidity monitors automated lights sensors that can trigger alarms in the event of broken glass fire window entry or water heater leakage and much more All projects can be accomplished with no previous knowledge for those with some background in C C or JAVA the projects can be customized All projects use easy free flexible open source platforms such as Arduino Focuses projects on real world remote control activations for protecting the home Written by a smart home expert and experienced author

Beginning Sensor Networks with Arduino and Raspberry Pi Charles Bell, 2014-01-23 Beginning Sensor Networks with Arduino and Raspberry Pi teaches you how to build sensor networks with Arduino Raspberry Pi and XBee radio modules and even shows you how to turn your Raspberry Pi into a MySQL database server to store your sensor data First you ll learn about the different types of sensors and sensor networks including how to build a simple XBee network Then you ll walk through building an Arduino based temperature sensor and data collector followed by building a Raspberry Pi based sensor node Next you ll learn different ways to store sensor data including writing to an SD card sending data to the cloud and setting up a Raspberry Pi MySQL server to

host your data You even learn how to connect to and interact with a MySQL database server directly from an Arduino Finally you ll learn how to put it all together by connecting your Arduino sensor node to your new Raspberry Pi database server If you want to see how well Arduino and Raspberry Pi can get along especially to create a sensor network then Beginning Sensor Networks with Arduino and Raspberry Pi is just the book you need

Home Security Systems DIY Using Android and Arduino Robert Chin,2015-12-15 This book shows you how to build your own wireless home security system using an Android cell phone or tablet an Arduino microcontroller an infrared motion detector a Bluetooth adapter and an optional ArduCAM Mini digital camera All these items are low cost off the shelf parts that are widely available for purchase This book shows you how to build your own home intruder alarm system that allows you to detect the motion of an intruder and then call out to an emergency phone number using an Android cell phone or just alert you to the intruder with an Android tablet In addition an ArduCAM Mini digital camera can be added so that pictures of the intruder can be taken when the motion detector is tripped You can also use the book s ArduCAM Mini camera based security system for continuous surveillance of your property The image data is stored locally on the Android device and does NOT require payment of storage fees as with some home security company plans This book will also go into the technical details of the hardware set up as well as the author created Android and Arduino software With these technical details you will be able to customize and expand these systems to suit your specific needs Who is this book for 1 This book is designed for everyone from people with no technical experience to experienced Do It Yourselfers such as those experienced in home improvements as well as programmers and engineers who want to customize and expand on the basic home security systems presented Key Feature Summary Shows you how to build your own wireless home security and surveillance system and stop paying monthly fees to home security companies Shows you how to build your own wireless home security and surveillance system and stop worrying about being spied on by commercial security companies Expands upon the trend of Do It Yourself or DIY wireless home security systems such as the best selling self installable SimpliSafe wireless home security system Follow the detailed Hands on Examples and install the pre made software created by the author on your Android and Arduino devices and get a working video surveillance system or an intruder alarm system up and running within 15 minutes Shows you how to build your own wireless home security system that can detect intruders and make an emergency cell phone call to notify you of the intrusion Explains the author created source code for the Android and Arduino so you can customize the home security systems yourself Table of Contents Chapter 1 Introducing the Arduino Chapter 2 Arduino Programming Language Basics Chapter 3 The Android Controller and Bluetooth Communication with Arduino Chapter 4 Simple Wireless Intruder Alarm System with Motion Detector Chapter 5 Hands on Example Creating a Simple Intruder Alarm System Chapter 6 ArduCAM Mini Wireless Intruder Alarm Video Surveillance System Chapter 7 Hands on Example Building an ArduCAM Intruder Alarm Surveillance System Chapter 8 Deploying your Wireless Intruder Alarm and Surveillance System

Make: Technology on Your Time Volume

30 Mark Frauenfelder, 2012-04-18 The first magazine devoted entirely to do it yourself technology projects presents its 30th quarterly edition for people who like to tweak disassemble recreate and invent cool new uses for technology Until recently home automation was an unfulfilled promise systems were gimmicky finicky user hostile or potentially unsecure But today thanks to a new crop of devices and technologies home automation is useful fun and maker friendly Using smartphones wireless networks the internet simple microcontrollers and even gesture recognition DIY style Smart Homes can now do everything promised and more for much less and MAKE shows you how in Volume 30 **Blockchain for IoT** Debarka Mukhopadhyay, Siddhartha Bhattacharyya, Balachandran Krishnan, Sudipta Roy, 2022-10-18 Blockchain for IoT provides the basic concepts of Blockchain technology and its applications to varied domains catering to socio technical fields It also introduces intelligent Blockchain platforms by way of infusing elements of computational intelligence into Blockchain technology With the help of an interdisciplinary approach it includes insights into real life IoT applications to enable the readers to assimilate the concepts with ease This book provides a balanced approach between theoretical understanding and practical applications Features A self contained approach to integrating the principles of Blockchain with elements of computational intelligence A rich and novel foundation of Blockchain technology with reference to the internet of things conjoined with the tenets of artificial intelligence in yielding intelligent Blockchain platforms Elucidates essential background concepts definitions and theories thereby putting forward a complete treatment on the subject Information presented in an accessible way for research students of computer science and information technology as well as software professionals who can inherit the much needed developmental ideas to boost up their computing knowledge on distributed platforms This book is aimed primarily at undergraduates postgraduates and researchers studying Blockchain Innovations in Electrical and Electronic Engineering Saad Mekhilef, Margarita Favorskaya, R. K. Pandey, Rabindra Nath Shaw, 2021-05-24 This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering ICEEE 2020 held on January 2 3 2021 The book focuses on the current developments in various fields of electrical and electronics engineering such as power generation transmission and distribution renewable energy sources and technologies power electronics and applications robotics artificial intelligence and IoT control automation and instrumentation electronics devices circuits and systems wireless and optical communication RF and microwaves VLSI and signal processing The book is a valuable resource for academics and industry professionals alike

This book delves into Building A Home Security System With Arduino. Building A Home Security System With Arduino is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Building A Home Security System With Arduino, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Building A Home Security System With Arduino
 - Chapter 2: Essential Elements of Building A Home Security System With Arduino
 - Chapter 3: Building A Home Security System With Arduino in Everyday Life
 - Chapter 4: Building A Home Security System With Arduino in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Building A Home Security System With Arduino. The first chapter will explore what Building A Home Security System With Arduino is, why Building A Home Security System With Arduino is vital, and how to effectively learn about Building A Home Security System With Arduino.
 3. In chapter 2, this book will delve into the foundational concepts of Building A Home Security System With Arduino. This chapter will elucidate the essential principles that need to be understood to grasp Building A Home Security System With Arduino in its entirety.
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 5. In chapter 4, the author will scrutinize the relevance of Building A Home Security System With Arduino in specific contexts. This chapter will explore how Building A Home Security System With Arduino is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Building A Home Security System With Arduino. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Building A Home Security System With Arduino.

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