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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

Building Internet of Things with the Arduino Charalampos Doukas, 2012 This book will provide you with all the information you need to design and create your own Internet of Things IoT applications using the Arduino platform

Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino Charles Bell, 2020-06-25 Build sensor networks with Python and MicroPython using XBee radio modules Raspberry Pi and Arduino boards This revised and updated edition will put all of these together to form a sensor network and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data You ll review the different types of sensors and sensor networks along with new technology including how to build a simple XBee network You ll then walk through building an sensor nodes on the XBee Raspberry Pi and Arduino and also learn how to collect data from multiple sensor nodes The book also explores 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 ll even learn how to connect to and interact with a MySQL database server directly from an Arduino Finally you ll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server If you want to see how well XBee Raspberry Pi and Arduino can get along especially to create a sensor network then Beginning Sensor Networks with XBee Raspberry Pi and Arduino is just the book you need What You ll Learn Code your sensor nodes with Python and MicroPython Work with new XBee 3 modules Host your data on Raspberry Pi Get started with MySQL Create sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions including those with little or no programming experience A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino those interested in controlling XBee modules with MicroPython

Arduino Home Automation Projects Marco Schwartz, 2014-07-23 This book is divided into projects that are explained in a step by step format with practical instructions that are easy to follow 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

Emerging Trends and Applications of the Internet of Things Kocovic, Petar, Behringer, Reinhold, Ramachandran, Muthu, Mihajlovic, Radomir, 2017-03-16 The widespread availability of technologies has increased exponentially in recent years This ubiquity has created more connectivity and seamless integration among technology devices Emerging Trends and Applications of the Internet of Things is an essential reference publication featuring the latest scholarly research on the surge of connectivity between computing devices in modern society as well as the benefits and challenges of this Featuring extensive coverage on a broad range of topics such as cloud computing spatial cognition and ultrasonic sensing this book is ideally designed for researchers professionals and academicians seeking current research on upcoming advances in the Internet of Things IoT

Internet of Things with Arduino Blueprints Pradeeka Seneviratne, 2015-10-27 Develop interactive Arduino based Internet projects with Ethernet and WiFi About This Book Build Internet based Arduino devices to make your home feel more secure Learn how to connect various sensors and actuators to the Arduino and access data from Internet A project based guide filled with schematics and wiring diagrams to help you build projects incrementally Who This Book Is For This book is intended for those who want to learn more about Arduino and make Internet based interactive projects with Arduino If you are an experienced software developer who understands the basics of electronics then you can quickly learn how to build the Arduino projects explained in this book What You Will Learn Make a powerful Internet controlled relay with an embedded web server to monitor and control your home electrical appliances Build a portable Wi-Fi signal strength sensor to give haptic feedback about signal strength to the user Measure water flow speed and volume with liquid flow sensors and record real time readings Secure your home with motion activated Arduino security cameras and upload images to the cloud Implement real time data logging of a solar panel voltage with Arduino cloud connectors Track locations with GPS and upload location data to the cloud Control a garage door light with your Twitter feed Control infrared enabled devices with IR remote and Arduino In Detail Arduino is a small single chip computer board that can be used for a wide variety of creative hardware projects The hardware consists of a simple microcontroller board and chipset It comes with a Java based IDE to allow creators to program the board Arduino is the ideal open hardware platform for experimenting with the world of the Internet of Things This credit card sized Arduino board can be used via the Internet to make more useful and interactive Internet of things projects Internet of Things with Arduino Blueprints is a project based book that begins with projects based on IoT and cloud computing concepts This book covers up to eight projects that will allow devices to communicate with each other access information over the Internet store and retrieve data and interact with users creating smart pervasive and always connected environments It explains how wired and wireless Internet connections can be used with projects and the use of various sensors and actuators The main aim of this book is to teach you how Arduino can be used for Internet related

projects so that users are able to control actuators gather data from various kinds of sensors and send and receive data wirelessly across HTTP and TCP protocols Finally you can use these projects as blueprints for many other IoT projects and put them to good use By the end of the book you will be an expert in the use of IoT with Arduino to develop a set of projects that can relate very well to IoT applications in the real world Style and approach Every chapter in this book clearly explains how to assemble components through easy to follow steps on while laying out important concepts code snippets and expected output results so that you can easily end up with a successful project where you can also enhance or modify the project according to your requirements

Internet of Things with the Arduino Yún Marco Schwartz,2014 All projects are explained in a step by step manner always starting with the assembly of the hardware and followed by basic tests of every hardware component You will then learn how to build exciting applications in a practical manner based on the details of the projects This book is intended for people who already have some experience with the Arduino platform and who want to build more exciting applications in particular in the Internet of Things field You will need to have some basic experience in electronics Arduino and programming in general to follow the projects created in the boo

[Internet of Things with ESP8266](#) Marco Schwartz,2016-07-29 Build amazing Internet of Things projects using the ESP8266 Wi Fi chip Key Features Get to know the powerful and low cost ESP8266 and build interesting projects in the field of Internet of Things Configure your ESP8266 to the cloud and explore the networkable modules that will be utilized in the IoT projects This step by step guide teaches you the basics of IoT with ESP8266 and makes your life easier Book DescriptionThe Internet of Things IoT is the network of objects such as physical things embedded with electronics software sensors and connectivity enabling data exchange ESP8266 is a low cost WiFi microcontroller chip that has the ability to empower IoT and helps the exchange of information among various connected objects ESP8266 consists of networkable microcontroller modules and with this low cost chip IoT is booming Kick starting with an introduction to the ESP8266 chip we will demonstrate how to build a simple LED using the ESP8266 You will then learn how to read send and monitor data from the cloud Next you ll see how to control your devices remotely from anywhere in the world Furthermore you ll get to know how to use the ESP8266 to interact with web services such as Twitter and Facebook In order to make several ESP8266s interact and exchange data without the need for human intervention you will be introduced to the concept of machine to machine communication The latter part of the book focuses more on projects including a door lock controlled from the cloud building a physical Bitcoin ticker and doing wireless gardening With this book you will be able to create and program Internet of Things projects using the ESP8266 WiFi chip What you will learn Control various devices from the cloud Interact with web services such as Twitter or Facebook Make two ESP8266 boards communicate with each other via the cloud Send notifications to users of the ESP8266 via email text message or push notifications Build a physical device that indicates the current price of Bitcoin Build a simple home automation system that can be controlled from the cloud Create your own cloud platform to control ESP8266 devices Who

this book is for Those who want to build powerful and inexpensive IoT projects using the ESP8266 WiFi chip including those who are new to IoT or those who already have experience with other platforms such as Arduino

Building Arduino Projects for the Internet of Things Adeel Javed, 2016-06-11 This is a book about building Arduino powered devices for everyday use and then connecting those devices to the Internet If you are one of the many who have decided to build your own Arduino powered devices for IoT applications you've probably wished you could find a single resource a guidebook for the eager to learn Arduino enthusiast that teaches logically methodically and practically how the Arduino works and what you can build with it Building Arduino Projects for the Internet of Things Experiments with Real World Applications is exactly what you need Written by a software developer and solution architect who got tired of hunting and gathering various lessons for Arduino development as he taught himself all about the topic this book gives you an incredibly strong foundation of Arduino based device development from which you can go in any direction according to your specific development needs and desires Readers are introduced to the building blocks of IoT and then deploy those principles to by building a variety of useful projects Projects in the books gradually introduce the reader to key topics such as internet connectivity with Arduino common IoT protocols custom web visualization and Android apps that receive sensor data on demand and in realtime IoT device enthusiasts of all ages will want this book by their side when developing Android based devices What You'll Learn Connect an Arduino device to the Internet Creating an Arduino circuit that senses temperature Publishing data collected from an Arduino to a server and to an MQTT broker Setting up channels in Xively Setting up an app in IBM Bluematrix Using Node RED to define complex flows Publishing data visualization in a web app Reporting motion sensor data through a mobile app Creating a remote control for house lights Creating a machine to machine communication requiring no human intervention Creating a location aware device

ket of new enthusiasts all ages who are just starting out with IoT device development

Arduino Networking Marco Schwartz, 2014-08-21 This book is intended for those who want to build their own network connected projects using the Arduino platform You will be able to build exciting projects that connect to your local network and the Web You will need to have some basic experience in electronics and web programming languages You will also need to know the basics of the Arduino platform as the projects mainly deal with the networking aspects of the Arduino Ethernet shield

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