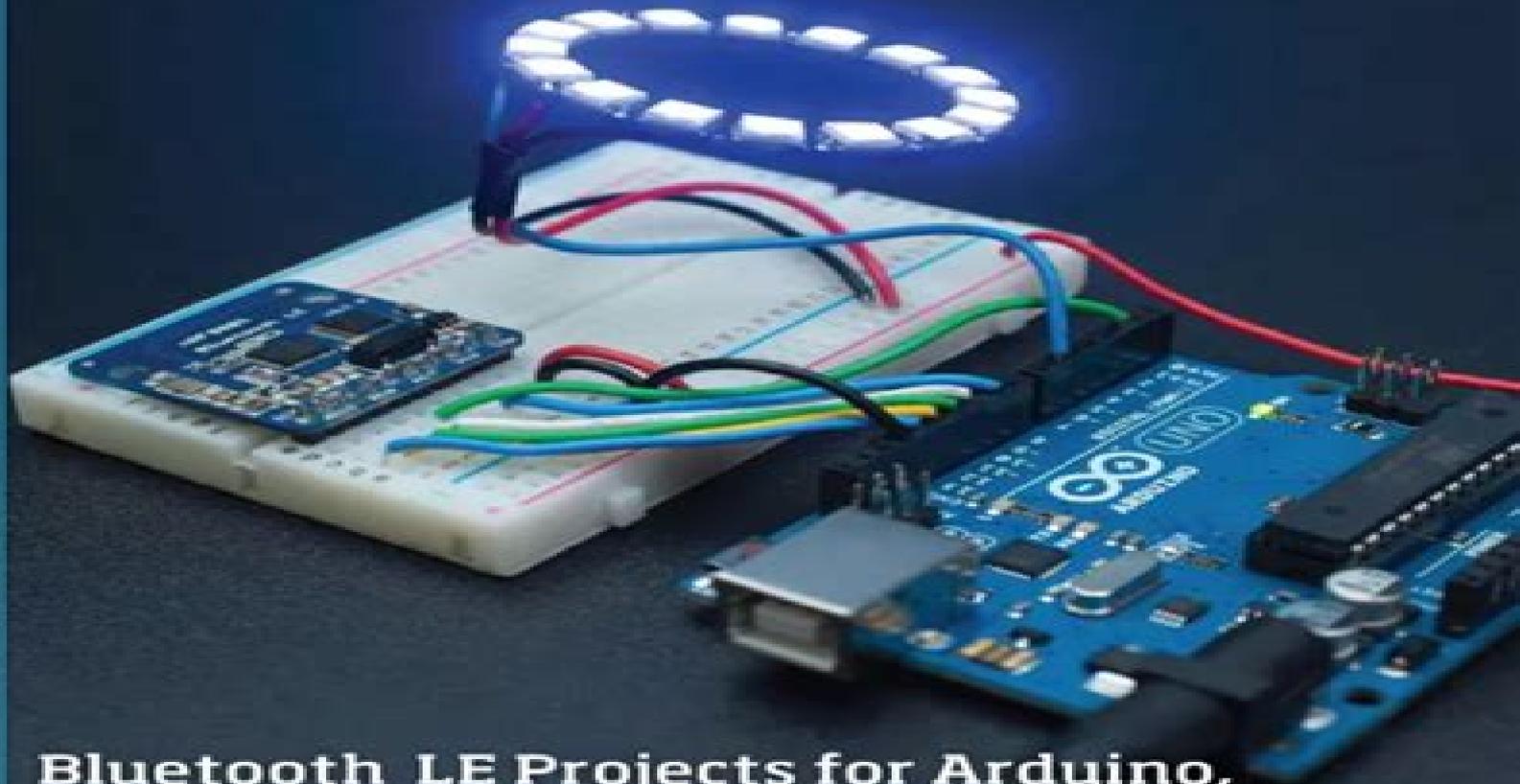# Make:
Bluetooth

Bluetooth LE Projects for Arduino, Raspberry Pi, and Smartphones

Alasdair Allan, Don Coleman & Sandeep Mistry

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Ying-Ying Zheng

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Make: Bluetooth Alasdair Allan,Don Coleman,Sandeep Mistry,2015-12-02 This book is where your adventures with Bluetooth LE begin You ll start your journey by getting familiar with your hardware options Arduino BLE modules computers including Raspberry Pi and mobile phones From there you ll write code and wire circuits to connect off the shelf sensors and even go all the way to writing your own Bluetooth Services Along the way you ll look at lightbulbs locks and Apple s iBeacon technology as well as get an understanding of Bluetooth security both how to beat other people s security and how to make your hardware secure **Bluetooth Low Energy** Alasdair Allan,Don Coleman,Sandeep Mistry,2017-03-08 Hybrid Mobile Development with Ionic Gaurav Saini,2017-04-27 Build a complete professional quality hybrid mobile application with Ionic About This Book Develop high grade and performance optimized hybrid applications using the latest version of Ionic Discover the latest and upcoming features of Ionic A practical guide that will help you fully utilize all the features and components of Ionic efficiently Who This Book Is For The target audience for this book is intermediate level application developers who have some basic knowledge of Ionic What You Will Learn Use every Ionic component and its customization according to the application along with some important third party components Recently released Lazy Loading and Grid System supporting desktop application with Electron Integration of the various Ionic backend services and features such as Ionic Push DB Auth Deploy in your application Exploration of white listing CORS and various other platform security aspects to secure your application Synchronization of your data with the cloud server and fetching it in real time using Ionic Cloud and Firebase services Integration of the Cordova iBeacon plugin which will fetch contextual data on the basis of location and Websockets for real time communication for IOT based applications Implementation of offline functionality in your PWA application using service worker cache storage and indexedDB In Detail Ionic is an open source front end framework that allows you to develop hybrid mobile apps without any native language hassle for each platform It offers a library of mobile optimized HTML CSS and JS components for building highly interactive mobile apps This book will help you to develop a complete professional and quality mobile application with Ionic Framework You will start the journey by learning to configure customize and migrate Ionic 1x to 3x Then you will move on to Ionic 3 components and see how you can customize them according to your applications You will also implement various native plugins and integrate them with Ionic and Ionic Cloud services to use them optimally in your application By this time you will be able to create a full fledged e commerce application Next you will master authorization authentication and security techniques in Ionic 3 to ensure that your application and data are secure Further you will integrate the backend services such as Firebase and the Cordova iBeacon plugin in your application Lastly you will be looking into Progressive Web Applications and its support with Ionic with a demonstration of an offline first application By the end of the book you will not only have built a professional hybrid mobile application but will also have ensured that your app is secure and performance driven Style and approach A step by step

guide covering all its features and components to build a complete mobile application using Ionic Each chapter will cover different features of Ionic   *Internet of Things* Qusay F. Hassan,Atta ur Rehman Khan,Sajjad A. Madani,2017-12-15 Internet of Things Challenges Advances and Applications provides a comprehensive introduction to IoT related technologies and common issues in the adoption of IoT on a large scale It surveys recent technological advances and novel solutions for challenges in the IoT environment Moreover it provides detailed discussion of the utilization of IoT and its underlying technologies in critical application areas such as smart grids healthcare insurance and the automotive industry The chapters of this book are authored by several international researchers and industry experts This book is composed of 18 self contained chapters that can be read based on interest Features Introduces IoT including its history common definitions underlying technologies and challenges Discusses technological advances in IoT and implementation considerations Proposes novel solutions for common implementation issues Explores critical application domains including large scale electric power distribution networks smart water and gas grids healthcare and e Health applications and the insurance and automotive industries The book is an excellent reference for researchers and post graduate students working in the area of IoT or related areas It also targets IT professionals interested in gaining deeper knowledge of IoT its challenges and application areas

   Smart Agriculture Govind Singh Patel,Amrita Rai,Nripendra Narayan Das,R.P. Singh,2021-02-10 This book endeavours to highlight the untapped potential of Smart Agriculture for the innovation and expansion of the agriculture sector The sector shall make incremental progress as it learns from associations between data over time through Artificial Intelligence deep learning and Internet of Things applications The farming industry and Smart agriculture develop from the stringent limits imposed by a farm s location which in turn has a series of related effects with respect to supply chain management food availability biodiversity farmers decision making and insurance and environmental concerns among others All of the above mentioned aspects will derive substantial benefits from the implementation of a data driven approach under the condition that the systems tools and techniques to be used have been designed to handle the volume and variety of the data to be gathered Contributions to this book have been solicited with the goal of uncovering the possibilities of engaging agriculture with equipped and effective profound learning algorithms Most agricultural research centres are already adopting Internet of Things for the monitoring of a wide range of farm services and there are significant opportunities for agriculture administration through the effective implementation of Machine Learning Deep Learning Big Data and IoT structures

   Bluetooth LE. Progetti per Arduino, Raspberry Pi e smartphone Alasdair Allan,Don Coleman,Sandeep Mistry,2016
   Develop Your Own Bluetooth Low Energy Applications Koen Vervloesem,2022-06-06   **Make** Alasdair Allan. Don Coleman. Sandeep Mistry,2016   **Bluetooth Remote Control for Arduino Using Android** Herb Norbom,2019-03-08 This book is for the intermediate to advanced Arduino user The reader will learn how to develop Arduino applications for the Uno and Nano that drive robots using an Android device The remote control will use Bluetooth for communications The

Android software application is developed using the MIT App Inventor software The MIT App Inventor is also under development for the iOS It may become available soon One project will use continuous rotation micro servos and the Nano The second project will use the Uno and geared DC motors The second project also contains a micro servo for rotating the Ultra Sonic Sensor Both projects will use HC 06 Bluetooth devices the HC 05 will also work with possible minor wiring changes With the Arduino the software developed is the same for the Uno and Nano minor changes for uploading occur The reader can substitute Arduino devices as desired Possible wiring changes may be necessary depending on the device The projects were developed on a Windows 10 PC and a Samsung Galaxy smartphone While not tested the projects will probably work on Linux and OS platforms with some changes The MIT App Inventor software is free and must be downloaded to your PC Applications developed are stored in the cloud A Google account is required if you use Google mail you already have the account The book does not go into details on the MIT App Inventor use We recommend that the reader go through some of the excellent tutorials on line The book does provide compete screen shots of the MIT App Inventor Designer and Blocks used The MIT app is very intuitive and quite powerful This app greatly simplifies the development of Android applications This book includes the printed source code and wiring diagrams for the projects The electronic or digitized source code is available to download for an additional fee for a limited time While not covered in this book one can easily see the development of many applications for smartphones and tablets **Bluetooth Low Energy in Arduino 101** Tony Gaitatzis,2017-09-29 This book is a practical guide to programming Bluetooth Low Energy for Arduino 101 In this book you will learn the basics of how to program an Arduino 101 to communicate with any Central or Peripheral device over Bluetooth Low Energy Each chapter of the book builds on the previous one culminating in three projects A Beacon and Scanner An Echo Server and Client A Remote Controlled Device Through the course of the book you will learn important concepts that relate to How Bluetooth Low Energy works How data is sent and received Common paradigms for handling data This book is excellent for anyone who has basic or advanced knowledge of Arduino programming or C **Arduino Android Blueprints** Marco Schwartz,Stefan Buttigieg,2014-12-22 This book is for those who want to learn how to build exciting Arduino projects by interfacing it with Android You will need to have some basic experience in electronics and programming However you don t need to have any previous experience with the Arduino or Android platforms *Arduino + Android Projects for the Evil Genius: Control Arduino with Your Smartphone or Tablet* Simon Monk,2011-12-12 TEAM ARDUINO UP WITH ANDROID FOR SOME MISCHIEVOUS FUN Filled with practical do it yourself gadgets Arduino Android Projects for the Evil Genius shows you how to create Arduino devices and control them with Android smartphones and tablets Easy to find equipment and components are used for all the projects in the book This wickedly inventive guide covers the Android Open Application Development Kit ADK and USB interface and explains how to use them with the basic Arduino platform Methods of communication between Android and Arduino that don t require the ADK including sound Bluetooth and WiFi Ethernet are

also discussed An Arduino ADK programming tutorial helps you get started right away Arduino Android Projects for the Evil Genius Contains step by step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying principles behind the projects Removes the frustration factor all required parts are listed Provides all source code on the book s website Build these and other devious devices Bluetooth robot Android Geiger counter Android controlled light show TV remote Temperature logger Ultrasonic range finder Home automation controller Remote power and lighting control Smart thermostat RFID door lock Signaling flags Delay timer   *Making Things Talk* Tom Igoe,2011-09-08 Make microcontrollers PCs servers and smartphones talk to each other Building electronic projects that interact with the physical world is good fun But when the devices you ve built start to talk to each other things really get interesting With 33 easy to build projects Making Things Talk shows you how to get your gadgets to communicate with you and your environment It s perfect for people with little technical training but a lot of interest Maybe you re a science teacher who wants to show students how to monitor the weather in several locations at once Or a sculptor looking to stage a room of choreographed mechanical sculptures In this expanded edition you ll learn how to form networks of smart devices that share data and respond to commands Call your home thermostat with a smartphone and change the temperature Create your own game controllers that communicate over a network Use ZigBee Bluetooth Infrared and plain old radio to transmit sensor data wirelessly Work with Arduino 1 0 Processing and PHP three easy to use open source environments Write programs to send data across the Internet based on physical activity in your home office or backyard Whether you want to connect simple home sensors to the Internet or create a device that can interact wirelessly with other gadgets this book explains exactly what you need   **Hc-05 Bluetooth + Arduino** Michael Wright,2016-07-18 Add Bluetooth to your Robotic Projects Michael Wright has done it again This book takes the mystery out of using Bluetooth for your robotic projects Learn how to use the Arduino to program the HC 05 and ZS 040 Bluetooth modules Includes Support website at www y2kLeader com AT Programming Codes Instructions for the HC 05 Bluetooth Module Instructions for the ZS 040 Bluetooth Module Wiring and Arduino Sketches How to make voltage dividers How to pair with other modules How to pair with Android   *Hands-On Internet of Things with Blynk* Pradeeka Seneviratne,2018-05-28 Connect things to create amazing IoT applications in minutes Key Features Use Blynk cloud and Blynk server to connect devices Build IoT applications on Android and iOS platforms A practical guide that will show how to connect devices using Blynk and Raspberry Pi 3 Book Description Blynk known as the most user friendly IoT platform provides a way to build mobile applications in minutes With the Blynk drag n drop mobile app builder anyone can build amazing IoT applications with minimal resources and effort on hardware ranging from prototyping platforms such as Arduino and Raspberry Pi 3 to industrial grade ESP8266 Intel Sierra Wireless Particle Texas Instruments and a few others This book uses Raspberry Pi as the main hardware platform and C C to write sketches to build projects The first part of this book shows how to set up a development environment with various hardware combinations and required

software Then you will build your first IoT application with Blynk using various hardware combinations and connectivity types such as Ethernet and Wi Fi Then you ll use and configure various widgets control display notification interface time input and some advanced widgets with Blynk App Builder to build applications Towards the end you will learn how to connect with and use built in sensors on Android and iOS mobile devices Finally you will learn how to build a robot that can be controlled with a Blynk app through the Blynk cloud and personal server By the end of this book you will have hands on experience building IoT applications using Blynk What you will learn Build devices using Raspberry Pi and various sensors and actuators Use Blynk cloud to connect and control devices through the Blynk app builder Connect devices to Blynk cloud and server through Ethernet and Wi Fi Make applications using Blynk app builder on Android and iOS platforms Run Blynk personal server on the Windows MAC and Raspberry Pi platforms Who this book is for This book is targeted at any stakeholder working in the IoT sector who wants to understand how Blynk works and build exciting IoT projects Prior understanding of Raspberry Pi C C and electronics is a must   Programming Arduino with LabVIEW Marco Schwartz,Oliver Manickum,2015-01-27 If you already have some experience with LabVIEW and want to apply your skills to control physical objects and make measurements using the Arduino sensor this book is for you Prior knowledge of Arduino and LabVIEW is essential to fully understand the projects detailed in this book   ARDUINO with MIT APP INVENTOR Tutorial Guide Giovanni Russo,2019-11-19 The book Arduino with MIT App Inventor is an introductory guide to understand how an Arduino works with a bluetooth module to connect with a smart phone and is operated with a mobile app created using MIT App Inventor Tool The book gives you an introduction to installing the basic tools required introduces the reader with the hardware as well as the software different scopes of it and how one can create different applications out of it The book presents 8 different tutorials to play with and understand the tool better which starts from a beginner s level by talking about controlling simple LEDs with a mobile app and slowly progresses by introducing new elements in the application explaining data exchange with arduino and the smart phone via bluetooth and finally the last tutorial that helps the user create a full android smart phone controlled robot The user has to follow the instructions given in each tutoiral Each tutorial explains a new part of the libraries present in MIT App Inventor and helps the reader to understand app building in more detail

Advanced Home Automation Using Raspberry Pi Rishabh Jain,2021 Build a versatile home automation system from scratch There are many ways of controlling home appliances with your smartphones voice gestures etc This book dives into the many options for for communicating with appliances wirelessly and we ll discuss and implement the leading protocols in the field In first few chapters you will develop a basic understanding of the Raspberry Pi and how one can control it wirelessly from anywhere in the world Then you ll get to know about the local server for your home automation projects and control the Raspberry Pi GPIOs using smartphone and web apps Every appliance will be able to talk to each other as well with the help of mesh networking which you ll learn to implement The user interface is also an important aspect of handling

all the appliances so you ll create your own user dashboard using OpenHAB From there you can monitor all the appliances and sensor data in one environment Next implement your own custom voice assistant to control your appliances and perform basic tasks like playing music checking weather etc You ll also integrate a smart door bell into your system using image processing so that you can restrict an unknown person s entry Finally we ll combine all the knowledge that we have learned to make a fully versatile home automation project controlled using voice gestures and image processing Throughout this whole project Raspberry Pi will be your master server or node and other devices will be connected wirelessly using wi fi Bluetooth modules Create a smart home with fully custom interfaces to do exactly what you need You will Create a user interface using openHAB Implement the MQTT protocol Install Alexa and Google Home API to control appliances wirelessly

Raspberry Pi for Arduino Users James R. Strickland,2018-06-19 Leverage your Arduino skills in the Raspberry Pi world and see how to cross the two platforms into sophisticated programs The Arduino and Raspberry Pi communities overlap more than you might think Arduinos can be expanded to have network capabilities with a variety of shields all of which increase the cost and complexity of the system By contrast Raspberry Pis all run Linux which is a very network competent platform The newest Pi the Raspberry Pi Zero W is WiFi and Bluetooth capable and costs around 10 U S For network enabled gadgets it makes far more sense to cross to the Raspberry PI platform if only someone would make it easy to do That s what this book is about You ll learn some survival level Linux system administration so you know how to set the machine up and how to establish at least minimal security for your gadget You ll set up and learn the Geany IDE on your Pi which is fairly similar to the Arduino IDE Where the two platforms overlap the most is the GPIO system You ll see that several projects use and explain the WiringPi system This is is deliberately similar to the Arduino s Wiring functionality which is how sketches interact with GPIO pins You ll learn the differences between the GPIO pins of the two devices and how the Pi has some limitations on those pins that the Arduino does not As a final project in an effort to escape some of those limitations you ll attach an AtMEGA 328P to the Raspberry Pi and configure it as a real 8MHz Arduino with the Arduino IDE running on the Pi and learn how to have the two platforms communicate giving you the best of both worlds What You ll Learn Establish security with Linux system administration Set up the Apache webserver Write CGI programs so other computers can connect to your Pi and pull datain from it Use C C from Arduino sketches to write programs for the Pi Who This Book Is For The Arduino user who s been through all the tutorials and is comfortable writing sketches and connecting hardware to their Arduino

Getting the Most Out of Makerspaces to Explore Arduino & Electronics Don Rauf,2014-07-15 If makerspaces allow young people to collaborate on building projects then Arduino allows them to go to the next level Arduino is a do it yourself kit that includes a microcontroller that makes using electronics more accessible Basically this means that even those who are not experts in electronics can do amazing things such as build and program robots This book opens young people up to the possibilities of this exciting world by explaining exactly what makerspaces and Arduino are and how virtually anyone can use

these tools to build programmable devices a skill that is essential in any STEM field

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