

Make: Bluetooth



Bluetooth LE Projects for Arduino,
Raspberry Pi, and Smartphones

Alasdair Allan, Don Coleman &
Sandeep Mistry

Make Bluetooth Bluetooth Le Projects With Arduino Raspberry Pi And Smartphones

Alasdair Allan, Don Coleman, Sandeep Mistry



Make Bluetooth Bluetooth Le Projects With Arduino Raspberry Pi And Smartphones:

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

ESP8266 Robotics Projects Pradeeka Seneviratne, 2017-11-30 Build simple yet amazing robotics projects using ESP8266 About This Book Get familiar with ESP8266 and its features Build Wi Fi controlled robots using ESP8266 A project based book that will use the ESP8266 board and some of its popular variations to build robots Who This Book Is For This book is targeted at enthusiasts who are interested in developing low cost robotics projects using ESP8266 A basic knowledge of programming will be useful but everything you need to know is are covered in the book What You Will Learn Build a basic robot with the original ESP8266 Arduino UNO and a motor driver board Make a Mini Round Robot with ESP8266 HUZZAH Modify your Mini Round Robot by integrating encoders with motors Use the Zumo chassis kit to build a line following robot by connecting line sensors Control your Romi Robot with Wiimote Build a Mini Robot Rover chassis with a gripper and control it through Wi Fi Make a robot that can take pictures In Detail The ESP8266 Wi Fi module is a self contained SOC with an integrated TCP IP protocol stack and can give any microcontroller access to your Wi Fi network It has a powerful processing and storage capability and also supports application hosting and Wi Fi networking This book is all about robotics projects based on the original ESP8266 microcontroller board and some variants of ESP8266 boards It starts by showing all the necessary things that you need to build your development environment with basic hardware and software components The book uses the original ESP8266 board and some variants such as the Adafruit HUZZAH ESP8266 and the Adafruit Feather HUZZAH ESP8266 You will learn how to use different type of chassis kits motors motor drivers power supplies distribution boards sensors and actuators to build robotics projects that can be controlled via Wi Fi In addition you will learn how to use line sensors the ArduiCam Wii Remote wheel encoders and the Gripper kit to build more specialized robots By the end of this book you will have built a Wi Fi control robot using ESP8266 Style and approach A project based guide that will help you build exciting robotics using ESP8266

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

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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 *Intelligent Control, Robotics, and Industrial Automation* Shilpa Suresh,Shyam Lal,Mustafa Servet Kiran,2024-10-16 This volume comprises peer reviewed proceedings of the International Conference on Robotics Control Automation and Artificial Intelligence RCAAI 2023 It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control the Internet of Things machine vision cybersecurity robotics circuits and sensors among others This volume will provide a valuable resource for those in academia and industry

Human Machine Interaction in the Digital Era J Dhilipan,V Saravanan,R Agusthiyar,2024-05-23 The Human Machine Interaction in the Digital Era ICHMIDE 2023 conference aims to address the main issues of concern in the design issues with a particular emphasis on the design and development of interfaces for autonomous robots Its main objective is to provide an international forum for the dissemination and exchange of up to date scientific information on research related to integrated human machine systems at multiple scales and includes areas such as human machine interaction engineering mathematical models assistive technologies system modelling design testing and validation The organization of ICHMS is based on the following Track types Smart Applications for Digital Era Computational Mathematical and Electronics Intelligent Systems in Security and Communication Technologies Technological Interventions using AI and Machine Learning Applied Science and IoT Techniques for Industries **Intelligent Methods in Electrical Power Systems** Chetan B. Khadse,Ishaan R. Kale,Apoorva S. Shastri,2024-11-02 This book provides a comprehensive review of the latest developments in optimization based learning algorithms within the field of electrical engineering It covers various power system applications including efficient power system operation load forecasting fault analysis home automation and efficient smart grid management Each

application is accompanied by case studies and a literature review in self contained chapters The book is dedicated to study the effectiveness of intelligent methods in addressing the power system problems and its mitigation using optimization algorithms It discusses several optimization algorithms such as random forest algorithm metaheuristic algorithm scaled conjugate gradient descent algorithm artificial bee colony algorithm etc and their usability in intelligent decision makers for the various optimization problems in electrical engineering This timely book serves as a practical guide and reference sources for students researchers and professionals Resilient and Responsible Smart Cities Hugo Rodrigues, Tomohiro Fukuda, Simon Elias Bibri, 2022-07-22 This book gathers current research studies which explore new technologies in architecture and urban practices which ensure the efficient management of cities infrastructures and provide new solutions to the complex complications that may result in the tackling of challenges of population density traffic planning and city planning at the neighborhood scale or rather the scale of buildings and everyday life It offers a path towards city resilience and sustainable infrastructure with the aim of meeting the demands of mega cities The primary audience of this book will be academics and professionals from the fields of architecture urban planning civil engineering computer sciences and mathematics The book will aid them in their contributions to the implementation of sustainable development goals

Emerging Trends in Computer Science and Its Application Anurag Tiwari, Manuj Darbari, 2025-04-08 The conference brought together a diverse group of scholars researchers and industry professionals to engage in meaningful discussions and share insights on cutting edge trends in artificial intelligence machine learning data science and their multifaceted applications This collaboration and knowledge exchange fostered an environment of innovation making the conference a successful and impactful event for all participants It aimed to highlight these significant advancements and serve as a valuable resource for researchers academicians and practitioners who wish to stay informed about the recent innovations and methodologies shaping the landscape of computational intelligence By showcasing a wide range of research topics and practical implementations it not only addressed the current challenges but also inspired new ideas and approaches for future research *Proceedings of the Green Materials and Electronic Packaging Interconnect Technology Symposium* Mohd Arif Anuar Mohd Salleh, Dewi Suriyani Che Halin, Kamrosni Abdul Razak, Mohd Izrul Izwan Ramli, 2023-07-02 This book presents peer reviewed articles from the Green Materials and Electronic Packaging Interconnect Technology Symposium EPITS 2022 held in Langkawi Malaysia on 14th and 15th of Sept 2022 It brings together packaging experts to share and exchange ideas in electronics technology Topics covered in this volume include but are not limited to 1 Green materials and technology 2 Emerging interconnect materials and technologies 3 Non solder interconnect materials at chip and package levels 4 Fundamental materials behavior for electronic packaging materials 5 Advanced characterization methods as applied to electronic packaging technology 6 Developments in high temperature Pb free solders and associated interconnects for automotive and power electronics 7 Surface coating materials 8 Advanced materials *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

Recent Trends in VLSI and Semiconductor Packaging T. Vasudeva Reddy, K. Madhava Rao, 2025-05-06 The International conference on Semiconductor Materials packaging AI ML Reconfigurable VLSI architectures for IoT future Communication Technologies SMART 2024 aimed to provide a platform for researchers academicians industry experts and practitioners to exchange ideas present research findings and discuss emerging trends and challenges in the specified fields SMART 2024 sought to foster collaboration innovation and knowledge dissemination by bringing together experts and stakeholders from diverse backgrounds to address key issues and explore new research directions The conference targeted a diverse audience including researchers academicians scientists engineers technologists industry professionals students policymakers and other stakeholders interested in VLSI IoT AI ML communication systems semiconductor packaging hetero architecture devices and Nano materials

Information and Communication Technology for Competitive Strategies (ICTCS 2022) Amit Joshi, Mufti Mahmud, Roshan G. Ragel, 2023-05-30 This book contains best selected research papers presented at ICTCS 2022 Seventh International Conference on Information and Communication Technology for Competitive Strategies The conference will be held in Chandigarh India during 9 10 December 2022 The book covers state of the art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications This book contains papers mainly focused on ICT for computation algorithms and data analytics and IT security The work is presented in two volumes

Sensor Technologies Michael J. McGrath, Clíodhna Ni Scanail, Dawn Nafus, 2014-01-23 Sensor Technologies Healthcare Wellness and Environmental Applications explores the key aspects of sensor technologies covering wired wireless and discrete sensors for the specific application domains of healthcare wellness and environmental sensing It discusses the social regulatory and design considerations specific to these domains The book provides an application based approach using real world examples to illustrate the application of sensor technologies in a practical and experiential manner The book guides the reader from the formulation of the research question through the design and validation process to the deployment and management phase of sensor applications The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs Sensor Technologies Healthcare Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare

wellness and environmental monitoring From sensor hardware to system applications and case studies this book gives readers an in depth understanding of the technologies and how they can be applied I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications Dr Benny Lo Lecturer The Hamlyn Centre Imperial College of London This timely addition to the literature on sensors covers the broad complexity of sensing sensor types and the vast range of existing and emerging applications in a very clearly written and accessible manner It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud based big data analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of big data down to the personal level of individual life and health Dermot Diamond Director National Centre for Sensor Research Principal Investigator CLARITY Centre for Sensor Web Technologies Dublin City University Sensor Technologies Healthcare Wellness and Environmental Applications takes the reader on an end to end journey of sensor technologies covering the fundamentals from an engineering perspective introducing how the data gleaned can be both processed and visualized in addition to offering exemplar case studies in a number of application domains It is a must read for those studying any undergraduate course that involves sensor technologies It also provides a thorough foundation for those involved in the research and development of applied sensor systems I highly recommend it to any engineer who wishes to broaden their knowledge in this area Chris Nugent Professor of Biomedical Engineering University of Ulster

Advancing Innovation through AI and Machine Learning Algorithms Udara Yedukondalu,V Vijayasri Bolisetty,2025-10-10 The International Conference on Microstructure VLSI Robotics Communication Electrical Emerging Technologies using AI ML Algorithms ICMVRCET 2025 is an essential gathering for those at the forefront of research and development in the fields of Microstructure Design VLSI systems Robotics Communication technologies and Emerging Electrical systems This conference seeks to bridge the gap between academic research industrial advancements and real world applications by focusing on the integration of Artificial Intelligence AI and Machine Learning ML algorithms in these rapidly evolving domains

Information Systems for Intelligent Systems Andres Iglesias,Jungpil Shin,Bharat Patel,Amit Joshi,2025-07-26 This book includes selected papers presented at World Conference on Information Systems for Business Management ISBM 2024 held in Bangkok Thailand during September 12 13 2024 It covers up to date cutting edge research on data science information systems infrastructure and computational systems engineering systems business information systems and smart secure systems

Bluetooth LE. Progetti per Arduino, Raspberry Pi e smartphone Alasdair Allan,Don

Coleman,Sandeep Mistry,2016 *Make* Alasdair Allan. Don Coleman. Sandeep Mistry,2016

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