

Make: Getting Started with Intel Edison



Sensors, Actuators, Bluetooth, and Wi-Fi
on the Tiny Atom-Powered Linux Module
Stephanie Moyerman

Getting Started Intel Edison Atom Powered

Kevin Huggins



Getting Started Intel Edison Atom Powered:

Getting Started with Intel Edison Stephanie Moyerman, 2015-11-03 The Intel Edison is a crowning achievement of Intel's adaptation of its technology into maker friendly products They've packed the dual core power of the Atom CPU combined it with a sideboard microcontroller brain and added in Wi-Fi Bluetooth Low Energy and a generous amount of RAM 1GB and flash storage 4GB This book written by Stephanie Moyerman a research scientist with Intel's Smart Device Innovation Team teaches you everything you need to know to get started making things with Edison the compact and powerful Internet of Things platform Projects and tutorials include Controlling devices over Bluetooth Using Python and Arduino programming environments on Edison Tracking objects with a webcam and OpenCV Responding to voice commands and talking back Using and configuring Linux on Edison

Node.js for Embedded Systems Patrick Mulder, Kelsey Breseman, 2016-10-10 How can we build bridges from the digital world of the Internet to the analog world that surrounds us By bringing accessibility to embedded components such as sensors and microcontrollers JavaScript and Node.js might shape the world of physical computing as they did for web browsers This practical guide shows hardware and software engineers makers and web developers how to talk in JavaScript with a variety of hardware platforms Authors Patrick Mulder and Kelsey Breseman also delve into the basics of microcontrollers single board computers and other hardware components Use JavaScript to program microcontrollers with Arduino and Espruino Prototype IoT devices with the Tessel 2 development platform Learn about electronic input and output components including sensors Connect microcontrollers to the Internet with the Particle Photon toolchain Run Node.js on single board computers such as Raspberry Pi and Intel Edison Talk to embedded devices with Node.js libraries such as Johnny Five and remotely control the devices with Bluetooth Use MQTT as a message broker to connect devices across networks Explore ways to use robots as building blocks for shared experiences

Android Things Projects Francesco Azzola, 2017-06-30 Develop smart Internet of things projects using Android Things About This Book Learn to build promising IoT projects with Android Things Make the most out of hardware peripherals using standard Android APIs Build enticing projects on IoT home automation and robotics by leveraging Raspberry Pi 3 and Intel Edison Who This Book Is For This book is for Android enthusiasts hobbyists IoT experts and Android developers who want to gain a deeper knowledge of Android Things The main focus is on implementing IoT projects using Android Things What You Will Learn Understand IoT ecosystem and the Android Things role See the Android Things framework installation environment SDK and APIs See how to effectively use sensors GPIO and I2C Bus Integrate Android Things with IoT cloud platforms Create practical IoT projects using Android Things Integrate Android Things with other systems using standard IoT protocols Use Android Things in IoT projects In Detail Android Things makes developing connected embedded devices easy by providing the same Android development tools best in class Android framework and Google APIs that make developers successful on mobile With this book you will be able to take advantage of the new Android framework APIs to securely build projects using low level

components such as sensors resistors capacitors and display controllers This book will teach you all you need to know about working with Android Things through practical projects based on home automation robotics IoT and so on We ll teach you to make the most of the Android Things and build enticing projects such as a smart greenhouse that controls the climate and environment automatically You ll also create an alarm system integrate Android Things with IoT cloud platforms and more By the end of this book you will know everything about Android Things and you ll have built some very cool projects using the latest technology that is driving the adoption of IoT You will also have primed your mindset so that you can use your knowledge for profitable practical projects Style and approach This book is packed with fun filled end to end projects that you will be encouraged to experiment on the Android Things OS

Advances in Communication, Devices and Networking Rabindranath Bera,Subir Kumar Sarkar,Om Prakash Singh,Hemanta Saikia,2019-02-15 The book covers recent trends in the field of devices wireless communication and networking It presents the outcomes of the International Conference in Communication Devices and Networking ICCDN 2018 which was organized by the Department of Electronics and Communication Engineering Sikkim Manipal Institute of Technology Sikkim India on 2 3 June 2018 Gathering cutting edge research papers prepared by researchers engineers and industry professionals it will help young and experienced scientists and developers alike to explore new perspectives and offer them inspirations on addressing real world problems in the field of electronics communication devices and networking

Getting Started with Intel Edison Stephanie Moyerman,2015 The Intel Edison is a crowning achievement of Intel s adaptation of its technology into maker friendly products They ve packed the dual core power of the Atom CPU combined it with a sideboard microcontroller brain and added in Wi Fi Bluetooth Low Energy and a generous amount of RAM 1GB and flash storage 4GB This book written by Stephanie Moyerman a research scientist with Intel s Smart Device Innovation Team teaches you everything you need to know to get started making things with Edison the compact and powerful Internet of Things platform

MySQL for the Internet of Things Charles Bell,2016-02-13 This book introduces the problems facing Internet of Things developers and explores current technologies and techniques to help you manage mine and make sense of the data being collected through the use of the world s most popular database on the Internet MySQL The IoT is poised to change how we interact with and perceive the world around us and the possibilities are nearly boundless As more and more connected devices generate data we will need to solve the problem of how to collect store and make sense of IoT data by leveraging the power of database systems The book begins with an introduction of the MySQL database system and storage of sensor data Detailed instructions and examples are provided to show how to add database nodes to IoT solutions including how to leverage MySQL high availability including examples of how to protect data from node outages using advanced features of MySQL The book closes with a comparison of raw and transformed data showing how transformed data can improve understandability and help you cut through a clutter of superfluous data toward the goal of mining nuggets of useful knowledge In this book you ll learn to

Understand the crisis of vast volumes of data from connected devices Transform data to improve reporting and reduce storage volume Store and aggregate your IoT data across multiple database servers Build localized low cost MySQL database servers using small and inexpensive computers Connect Arduino boards and other devices directly to MySQL database servers Build high availability MySQL solutions among low power computing devices Artificial Intelligence for Edge Computing Mudhakar Srivatsa, Tarek Abdelzaher, Ting He, 2023-12-21 It is undeniable that the recent revival of artificial intelligence AI has significantly changed the landscape of science in many application domains ranging from health to defense and from conversational interfaces to autonomous cars With terms such as Google Home Alexa and ChatGPT becoming household names the pervasive societal impact of AI is clear Advances in AI promise a revolution in our interaction with the physical world a domain where computational intelligence has always been envisioned as a transformative force toward a better tomorrow Depending on the application family this domain is often referred to as Ubiquitous Computing Cyber Physical Computing or the Internet of Things The underlying vision is driven by the proliferation of cheap embedded computing hardware that can be integrated easily into myriads of everyday devices from consumer electronics such as personal wearables and smart household appliances to city infrastructure and industrial process control systems One common trait across these applications is that the data that the application operates on come directly typically via sensors from the physical world Thus from the perspective of communication network infrastructure the data originate at the network edge From a performance standpoint there is an argument to be made that such data should be processed at the point of collection Hence a need arises for Edge AI a genre of AI where the inference and sometimes even the training are performed at the point of need meaning at the edge where the data originate The book is broken down into three parts core problems distributed problems and other cross cutting issues It explores the challenges arising in Edge AI contexts Some of these challenges such as neural network model reduction to fit resource constrained hardware are unique to the edge environment They need a novel category of solutions that do not parallel more typical concerns in mainstream AI Others are adaptations of mainstream AI challenges to the edge space An example is overcoming the cost of data labeling The labeling problem is pervasive but its solution in the IoT application context is different from other contexts This book is not a survey of the state of the art With thousands of publications appearing in AI every year such a survey is doomed to be incomplete on arrival It is also not a comprehensive coverage of all the problems in the space of Edge AI Different applications pose different challenges and a more comprehensive coverage should be more application specific Instead this book covers some of the more endemic challenges across the range of IoT CPS applications To offer coverage in some depth we opt to cover mainly one or a few representative solutions for each of these endemic challenges in sufficient detail rather than broadly touching on all relevant prior work The underlying philosophy is one of illustrating by example The solutions are curated to offer insight into a way of thinking that characterizes Edge AI research and distinguishes its solutions from their more

mainstream counterparts

Virtual and Augmented Reality: Concepts, Methodologies, Tools, and Applications

Management Association, Information Resources, 2018-03-02 Virtual and augmented reality is the next frontier of technological innovation As technology exponentially evolves so do the ways in which humans interact and depend upon it Virtual and Augmented Reality Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on the trends techniques and uses of virtual and augmented reality in various fields and examines the benefits and challenges of these developments Highlighting a range of pertinent topics such as human computer interaction digital self identity and virtual reconstruction this multi volume book is ideally designed for researchers academics professionals theorists students and practitioners interested in emerging technology applications across the digital plane

Intelligent Communication, Control and Devices Sushabhan Choudhury, Ranjan Mishra, Raj Gaurav Mishra, Adesh Kumar, 2019-08-28 The book focuses on the integration of intelligent communication systems control systems and devices related to all aspects of engineering and sciences It includes high quality research papers from the 3rd international conference ICICCD 2018 organized by the Department of Electronics Instrumentation and Control Engineering at the University of Petroleum and Energy Studies Dehradun on 21 22 December 2018 Covering a range of recent advances in intelligent communication intelligent control and intelligent devices the book presents original research and findings as well as researchers and industrial practitioners practical development experiences of

Internet of Things and Data Analytics Handbook Hwaiyu Geng, 2017-01-10 This book examines the Internet of Things IoT and Data Analytics from a technical application and business point of view Internet of Things and Data Analytics Handbook describes essential technical knowledge building blocks processes design principles implementation and marketing for IoT projects It provides readers with knowledge in planning designing and implementing IoT projects The book is written by experts on the subject matter including international experts from nine countries in the consumer and enterprise fields of IoT The text starts with an overview and anatomy of IoT ecosystem of IoT communication protocols networking and available hardware both present and future applications and transformations and business models The text also addresses big data analytics machine learning cloud computing and consideration of sustainability that are essential to be both socially responsible and successful Design and implementation processes are illustrated with best practices and case studies in action In addition the book Examines cloud computing data analytics and sustainability and how they relate to IoT over the scope of consumer government and enterprise applications Includes best practices business model and real world case studies Hwaiyu Geng P E is a consultant with Amica Research www.AmicaResearch.org Palo Alto California promoting green planning design and construction projects He has had over 40 years of manufacturing and management experience working with Westinghouse Applied Materials Hewlett Packard and Intel on multi million high tech projects He has written and presented numerous technical papers at international conferences Mr Geng a patent holder is also the editor author of Data Center Handbook Wiley 2015

Wireless Power Transfer for Electric Vehicles: Foundations and Design Approach Alicia Triviño-Cabrera, José M. González-González, José A. Aguado, 2019-09-19 This book describes the fundamentals and applications of wireless power transfer WPT in electric vehicles EVs Wireless power transfer WPT is a technology that allows devices to be powered without having to be connected to the electrical grid by a cable Electric vehicles can greatly benefit from WPT as it does away with the need for users to manually recharge the vehicles batteries leading to safer charging operations Some wireless chargers are available already and research is underway to develop even more efficient and practical chargers for EVs This book brings readers up to date on the state of the art worldwide In particular it provides The fundamental principles of WPT for the wireless charging of electric vehicles car bicycles and drones including compensation topologies bi directionality and coil topologies Information on international standards for EV wireless charging Design procedures for EV wireless chargers including software files to help readers test their own designs Guidelines on the components and materials for EV wireless chargers Review and analysis of the main control algorithms applied to EV wireless chargers Review and analysis of commercial EV wireless charger products coming to the market and the main research projects on this topic being carried out worldwide The book provides essential practical guidance on how to design wireless chargers for electric vehicles and supplies MATLAB files that demonstrate the complexities of WPT technology and which can help readers design their own chargers

Cloud Computing for Optimization: Foundations, Applications, and Challenges Bhabani Shankar Prasad Mishra, Himansu Das, Satchidananda Dehuri, Alok Kumar Jagadev, 2018-02-26 This book discusses harnessing the real power of cloud computing in optimization problems presenting state of the art computing paradigms advances in applications and challenges concerning both the theories and applications of cloud computing in optimization with a focus on diverse fields like the Internet of Things fog assisted cloud computing and big data In real life many problems ranging from social science to engineering sciences can be identified as complex optimization problems Very often these are intractable and as a result researchers from industry as well as the academic community are concentrating their efforts on developing methods of addressing them Further the cloud computing paradigm plays a vital role in many areas of interest like resource allocation scheduling energy management virtualization and security and these areas are intertwined with many optimization problems Using illustrations and figures this book offers students and researchers a clear overview of the concepts and practices of cloud computing and its use in numerous complex optimization problems

Examining Developments and Applications of Wearable Devices in Modern Society Delabrida Silva, Saul Emanuel, Rabelo Oliveira, Ricardo Augusto, Loureiro, Antonio Alfredo Ferreira, 2017-08-07 Wearable technology can range anywhere between activity trackers to prosthetics These new advancements are continuously progressing and becoming a part of daily life Examining Developments and Applications of Wearable Devices in Modern Society is a pivotal reference source for the most innovative research on the expansion of wearable computing and technology Featuring coverage on a broad range of topics such as stroke monitoring

augmented reality and cancer detection this publication is ideally designed for academicians researchers and students seeking current research on the challenges and benefits of the latest wearable devices **Unmanned Aerial Systems** Anis Koubaa,Ahmad Taher Azar,2021-01-21 Unmanned Aerial Systems Theoretical Foundation and Applications presents some of the latest innovative approaches to drones from the point of view of dynamic modeling system analysis optimization control communications 3D mapping search and rescue surveillance farmland and construction monitoring and more With the emergence of low cost UAS a vast array of research works in academia and products in the industrial sectors have evolved The book covers the safe operation of UAS including but not limited to fundamental design mission and path planning control theory computer vision artificial intelligence applications requirements and more This book provides a unique reference of the state of the art research and development of unmanned aerial systems making it an essential resource for researchers instructors and practitioners Covers some of the most innovative approaches to drones Provides the latest state of the art research and development surrounding unmanned aerial systems Presents a comprehensive reference on unmanned aerial systems with a focus on cutting edge technologies and recent research trends in the area *Ubiquitous Music Ecologies* Victor Lazzarini,Damián Keller,Nuno Otero,Luca Turchet,2020-11-26 Ubiquitous music is an interdisciplinary area of research that lies at the intersection of music and computer science Initially evolving from the related concept of ubiquitous computing today ubiquitous music offers a paradigm for understanding how the everyday presence of computers has led to highly diverse music practices As we move from desktop computers to mobile and internet based multi platform systems new ways to participate in creative musical activities have radically changed the cultural and social landscape of music composition and performance This volume explores how these new systems interact and how they may transform our musical experiences Emerging out of the work of the Ubiquitous Music Group an international research network established in 2007 this volume provides a snapshot of the ecologically grounded perspectives on ubiquitous music that share the concept of ecosystem as a central theme Covering theory software and hardware design and applications in educational and artistic settings each chapter features in depth descriptions of exploratory and cutting edge creative practices that expand our understanding of music making by means of digital and analogue technologies *Hearings, Reports and Prints of the Joint Committee on Atomic Energy* United States. Congress. Joint Committee on Atomic Energy,1971 *Military Applications of Data Analytics* Kevin Huggins,2018-10-09 Military organizations around the world are normally huge producers and consumers of data Accordingly they stand to gain from the many benefits associated with data analytics However for leaders in defense organizations either government or industry accessible use cases are not always available This book presents a diverse collection of cases that explore the realm of possibilities in military data analytics These use cases explore such topics as Context for maritime situation awareness Data analytics for electric power and energy applications Environmental data analytics in military operations Data analytics and training effectiveness evaluation Harnessing single board computers

for military data analytics Analytics for military training in virtual reality environments A chapter on using single board computers explores their application in a variety of domains including wireless sensor networks unmanned vehicles and cluster computing The investigation into a process for extracting and codifying expert knowledge provides a practical and useful model for soldiers that can support diagnostics decision making analysis of alternatives and myriad other analytical processes Data analytics is seen as having a role in military learning and a chapter in the book describes the ongoing work with the United States Army Research Laboratory to apply data analytics techniques to the design of courses evaluation of individual and group performances and the ability to tailor the learning experience to achieve optimal learning outcomes in a minimum amount of time Another chapter discusses how virtual reality and analytics are transforming training of military personnel Virtual reality and analytics are also transforming monitoring decision making readiness and operations Military Applications of Data Analytics brings together a collection of technical and application oriented use cases It enables decision makers and technologists to make connections between data analytics and such fields as virtual reality and cognitive science that are driving military organizations around the world forward *IoT in Healthcare and Ambient Assisted Living* Gonçalo Marques,Akash Kumar Bhoi,Victor Hugo C. de Albuquerque,Hareesha K.S.,2021-01-04 This book presents the state of the art of Internet of Things IoT from the perspective of healthcare and Ambient Assisted Living AAL It discusses the emerging technologies in healthcare services used for healthcare professionals and patients for enhanced living environments and public health The topics covered in this book include emerging eHealth IoT applications Internet of Medical Things health sensors and wearable sensors for pervasive and personalized healthcare and smart homes applications for enhanced health and well being The book also presents various ideas for the design and development of IoT solutions for healthcare and AAL It will be useful for bioengineers and professionals working in the areas of healthcare as well as health informatics

Building the Web of Things Dominique Dom Guinard,Vlad M. Trifa,2016-06-06 Summary A hands on guide that will teach how to design and implement scalable flexible and open IoT solutions using web technologies This book focuses on providing the right balance of theory code samples and practical examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Because the Internet of Things is still new there is no universal application protocol Fortunately the IoT can take advantage of the web where IoT protocols connect applications thanks to universal and open APIs About the Book Building the Web of Things is a guide to using cutting edge web technologies to build the IoT This step by step book teaches you how to use web protocols to connect real world devices to the web including the Semantic and Social Webs Along the way you ll gain vital concepts as you follow instructions for making Web of Things devices By the end you ll have the practical skills you need to implement your own web connected products and services What s Inside Introduction to IoT protocols and devices Connect electronic actuators and sensors GPIO

to a Raspberry Pi Implement standard REST and Pub Sub APIs with Node js on embedded systems Learn about IoT protocols like MQTT and CoAP and integrate them to the Web of Things Use the Semantic Web JSON LD RDFa etc to discover and find Web Things Share Things via Social Networks to create the Social Web of Things Build a web based smart home with HTTP and WebSocket Compose physical mashups with EVERYTHING Node RED and IFTTT About the Reader For both seasoned programmers and those with only basic programming skills About the Authors Dominique Guinard and Vlad Trifa pioneered the Web of Things and cofounded EVERYTHING a large scale IoT cloud powering billions of Web Things Table of Contents PART 1 BASICS OF THE IOT AND THE WOT From the Internet of Things to the Web of Things Hello World Wide Web of Things Node js for the Web of Things Getting started with embedded systems Building networks of Things PART 2 BUILDING THE WOT Access Web APIs for Things Implementing Web Things Find Describe and discover Web Things Share Securing and sharing Web Things *Intelligent Information and Database Systems* Ngoc Thanh Nguyen, Satoshi Tojo, Le Minh Nguyen, Bogdan Trawiński, 2017-03-23 The two volume set LNAI 10191 and 10192 constitutes the refereed proceedings of the 9th Asian Conference on Intelligent Information and Database Systems ACIIDS 2017 held in Kanazawa Japan in April 2017 The total of 152 full papers accepted for publication in these proceedings was carefully reviewed and selected from 420 submissions They were organized in topical sections named Knowledge Engineering and Semantic Web Social Networks and Recommender Systems Text Processing and Information Retrieval Intelligent Database Systems Intelligent Information Systems Decision Support and Control Systems Machine Learning and Data Mining Computer Vision Techniques Advanced Data Mining Techniques and Applications Intelligent and Context Systems Multiple Model Approach to Machine Learning Applications of Data Science Artificial Intelligence Applications for E services Automated Reasoning and Proving Techniques with Applications in Intelligent Systems Collective Intelligence for Service Innovation Technology Opportunity E Learning and Fuzzy Intelligent Systems Intelligent Computer Vision Systems and Applications Intelligent Data Analysis Applications and Technologies for Internet of Things Intelligent Algorithms and Brain Functions Intelligent Systems and Algorithms in Information Sciences IT in Biomedicine Intelligent Technologies in the Smart Cities in the 21st Century Analysis of Image Video and Motion Data in Life Sciences Modern Applications of Machine Learning for Actionable Knowledge Extraction Mathematics of Decision Sciences and Information Science Scalable Data Analysis in Bioinformatics and Biomedical Informatics and Technological Perspective of Agile Transformation in IT organizations

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