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Intel Galileo and Intel Galileo Gen 2Internet of Things with PythonLightweight Cryptography for Security and PrivacyGetting Started with Intel IoT and Intel GalileoGetting Started with Intel GalileoInternet of Things A to ZInternet of ThingsEmbedded Firmware SolutionsAndroid Application Development for the Intel PlatformIntel Galileo BlueprintsNexGen Technologies for Mining and Fuel Industries (Volume I and II)Handbook of Smart CitiesHome Automation with Intel GalileoInternet of Things with Intel GalileoRethinking the Internet of ThingsHigh-Performance ApparelCryptographic Hardware and Embedded Systems – CHES 2016Examining Developments and Applications of Wearable Devices in Modern SocietyGetting Started with Windows IoT and Intel GalileoInternet of Things Manoel Ramon Gaston C. Hillar Tim Güneysu Agus Kurniawan Matt Richardson Qusay F. Hassan Simone Cirani Vincent Zimmer Ryan Cohen Marco Schwartz Pradeep K. Singh Muthucumaru Maheswaran Onur Dundar Miguel de Sousa Francis daCosta John McLoughlin Benedikt Gierlichs Delabrida Silva, Saul Emanuel Agus Kurniawan Qusay F. Hassan

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intel galileo and intel galileo gen 2 api features and arduino projects for linux programmers provides detailed information about intel galileo and intel galileo gen 2 boards for all software developers interested in arduino and the linux platform the book covers the new arduino apis and is an introduction for developers on natively using linux author manoel carlos ramon is a member of the intel galileo development team in this book he draws on his practical experience in working on the galileo project as he shares the team s findings problems fixes workarounds and techniques with the open source community his areas of expertise are wide ranging including linux embedded kernel and device drivers c c java opengl assembler android ndk sdk adk and 2g 3g 4g modem integration he has more than 17 years of experience in research and development of mobile devices and embedded circuits his personal blog about programming is bytesthink bytesthink com

interact with the world and rapidly prototype iot applications using python about this book rapidly prototype even complex iot applications with python and put them to practical use enhance your iot skills with the most up to date applicability in the field of wearable tech smart environments and home automation interact with hardware sensors and actuators and control your diy iot projects through python who this book is for the book is ideal for python developers who want to explore the tools in the python ecosystem in order to build their own iot applications and work on iot related projects it is also a very useful resource for developers with experience in other programming languages that want to easily prototype iot applications with the intel galileo gen 2 board what you will learn prototype and develop iot solutions from scratch with python as the programming language develop iot projects with intel galileo gen 2 board along with python work with the different components included in the boards using python and the mraa library interact with sensors actuators and shields work with uart and local storage interact with any electronic device that supports the i2c bus allow mobile devices to interact with the board work with real time iot and cloud services understand big data and iot analytics in detail internet of things iot is revolutionizing the way devices things interact with each other and when you have iot with python on your side you ll be able to build interactive objects and design them this book lets you stay at the forefront of cutting edge research on iot we ll open up the possibilities using tools that enable you to interact with the world such as intel galileo gen 2 sensors and other hardware you will learn how to read write and convert digital values to generate analog output by programming pulse width modulation pwm in python you will get familiar with the complex communication system included in the board so you can interact with any shield actuator or sensor later on you will not only see how to work with data received from the sensors but also perform actions by sending them to a specific shield you ll be able to connect your iot device to the entire world by integrating wifi bluetooth and internet settings with everything ready you will see how to work in real time on your iot device using the mqtt protocol in python by the end of the book you will be able to develop iot prototypes with python libraries and tools style and approach this book takes a tutorial like approach with mission critical chapters the initial chapters are introductions that set the premise for useful examples covered in later chapters

this book constitutes the refereed post conference proceedings of the 4th international workshop on lightweight cryptography for security and privacy lightsec 2015 held in bochum germany in september 2015 the 9 full papers presented were carefully reviewed and selected from 17 submissions the papers are organized in the following topical sections cryptanalysis lightweight constructions implementation challenges

the intel galileo board is the first in a family of arduino certified development and prototyping boards based on intel architecture intel provides intel iot developer kit which you can build and deploy application on top of intel galileo board this book helps you getting started with intel iot and intel galileo the following is a list of highlight topics preparing development environment working with arduino ide software accessing internal linux os connecting to internet network yocto embedded linux based os intel galileo i o programming from yocto linux it covers topics about gpio uart spi and i2c working with xbee ieee 802 15 4 code samples are be provided as illustration with written in python c and node js

getting started with the intel galileo gets you up and running with this new x86 powered board that was developed in collaboration between arduino and

intel you ll learn how to set it up connect it to your computer and begin programming you ll learn how to build electronics projects around the galileo and you ll explore the features and power that make it different from all the boards that came before developed in collaboration with the intel galileo team and in consultation with members of the arduino team this is the definitive introduction to intel s new board for makers

a comprehensive overview of the internet of things core concepts technologies and applications internet of things a to z offers a holistic approach to the internet of things iot model the internet of things refers to uniquely identifiable objects and their virtual representations in an internet like structure recently there has been a rapid growth in research on iot communications and networks that confirms the scalability and broad reach of the core concepts with contributions from a panel of international experts the text offers insight into the ideas technologies and applications of this subject the authors discuss recent developments in the field and the most current and emerging trends in iot in addition the text is filled with examples of innovative applications and real world case studies internet of things a to z fills the need for an up to date volume on the topic this important book covers in great detail the core concepts enabling technologies and implications of the internet of things addresses the business social and legal aspects of the internet of things explores the critical topic of security and privacy challenges for both individuals and organizations includes a discussion of advanced topics such as the need for standards and interoperability contains contributions from an international group of experts in academia industry and research written for ict researchers industry professionals and lifetime it learners as well as academics and students internet of things a to z provides a much needed and comprehensive resource to this burgeoning field

this book addresses researchers and graduate students at the forefront of study research on the internet of things iot by presenting state of the art research together with the current and future challenges in building new smart applications e g smart cities smart buildings and industrial iot in an efficient scalable and sustainable way it covers the main pillars of the iot world connectivity interoperability discoverability and security privacy providing a comprehensive look at the current technologies procedures and architectures

embedded firmware solutions is the perfect introduction and daily use field guide for the thousands of firmware designers hardware engineers architects managers and developers to intel s new firmware direction including quark coverage showing how to integrate intel architecture designs into their plans featuring hands on examples and exercises using open source codebases like coreboot and efi development kit tianocore and chromebook this is the first book that combines a timely and thorough overview of firmware solutions for the rapidly evolving embedded ecosystem with in depth coverage of requirements and optimization

the number of android devices running on intel processors has increased since intel and google announced in late 2011 that they would be working together to optimize future versions of android for intel atom processors today intel processors can be found in android smartphones and tablets made by some of the top manufacturers of android devices such as samsung lenovo and asus the increase in android devices featuring intel processors has created a demand for

android applications optimized for intel architecture android application development for the intel platform is the perfect introduction for software engineers and mobile app developers through well designed app samples code samples and case studies the book teaches android application development based on the intel platform including for smartphones tablets and embedded devices covering performance tuning debugging and optimization this book is jointly developed for individual learning by intel software college and china shanghai jiaotong university

the intel galileo board was designed to add the power of an intel processor to the simplicity of the arduino platform intel galileo gives you the freedom to create a wide range of diy projects intel galileo blueprints will be a detailed guide that covers several projects based on the intel galileo board exploiting the full potential of the board you will first go through how to set up the development environment for the galileo board next you will connect different kinds of sensors to the galileo board and learn how to use the sd card reader of the board you will then connect actuators to the galileo board like a relay and a servomotor and write simple software to control these components later you will access the galileo board remotely in order to monitor the measurements done by the board and send the measured data to a twitter feed at regular intervals finally you will move on to more advanced topics such as building a complete home automation system building a mobile robot controlled by the intel galileo board and computer vision applications such as face recognition

the papers in these two volumes were presented at the international conference on nexgen technologies for mining and fuel industries nxgnmifu 2017 in new delhi from february 15 17 2017 organized by csir central institute of mining and fuel research dhanbad india the proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies the major issues focused on are innovative mining technology rock mechanics and stability analysis advances in explosives and blasting mine safety and risk management computer simulation and mine automation natural resource management for sustainable development environmental impacts and remediation paste fill technology and waste utilisation fly ash management clean coal initiatives mineral processing and coal beneficiation quality coal for power generation and conventional and non conventional fuels and gases this collection of contemporary articles contains unique knowledge case studies ideas and insights a must have for researchers and engineers working in the areas of mining technologies and fuel sciences

this handbook provides a glimpse of the research that is underway in smart cities with an examination of the relevant issues it describes software infrastructures for smart cities the role of 5g and internet of things in future smart cities scenarios the use of clouds and sensor based devices for monitoring and managing smart city facilities a variety of issues in the emerging field of urban informatics and various smart city applications handbook of smart cities includes fifteen chapters from renowned worldwide researchers working on various aspects of smart city scale cyber physical systems it is intended for researchers developers of smart city technologies and advanced level students in the fields of communication systems computer science and data science this handbook is also designed for anyone wishing to find out more about the on going research thrusts and deployment experiences in smart cities it is meant to provide a snapshot of the state of the art at the time of its writing in several software services and cyber infrastructures as pertinent to smart cities this handbook presents application case studies in video surveillance smart parking and smart building management in the smart city context unique

experiences in designing and implementing the applications or the issues involved in developing smart city level applications are described in these chapters integration of machine learning into several smart city application scenarios is also examined in some chapters of this handbook

this book is for anyone who wants to learn intel galileo for home automation and cross platform software development no knowledge of programming with intel galileo is assumed but knowledge of the c programming language is essential

this book starts by teaching you the essentials of the intel galileo board its components how to wire it and how to use it safely the book will teach you how to use and combine simple sensors to build more complex connected objects with the help of an internet connection you ll also learn how to control and read from your sensors by building a number of interesting projects finally the book will familiarize you with the art of controlling your objects using mobile devices by the end of the book you ll be able to understand the key concepts of the internet of things and what a thing truly is this book will make you ready and also more aware of what you can do with a galileo board while inspiring you with more ideas to build your own home projects

apress is proud to announce that rethinking the internet of things was a 2014 jolt award finalist the highest honor for a programming book and the amazing part is that there is no code in the book over the next decade most devices connected to the internet will not be used by people in the familiar way that personal computers tablets and smart phones are billions of interconnected devices will be monitoring the environment transportation systems factories farms forests utilities soil and weather conditions oceans and resources many of these sensors and actuators will be networked into autonomous sets with much of the information being exchanged machine to machine directly and without human involvement machine to machine communications are typically terse most sensors and actuators will report or act upon small pieces of information chirps burdening these devices with current network protocol stacks is inefficient unnecessary and unduly increases their cost of ownership this must change the architecture of the internet of things must evolve now by incorporating simpler protocols toward at the edges of the network or remain forever inefficient rethinking the internet of things describes reasons why we must rethink current approaches to the internet of things appropriate architectures that will coexist with existing networking protocols are described in detail an architecture comprised of integrator functions propagator nodes and end devices along with their interactions is explored

high performance apparel materials development and applications covers the materials and techniques used in creating high performance apparel the technical aspects of developing high performance garments and an array of applications for high performance clothing and wearable technology part one covers fabric construction for high performance garments from fiber types and spinning methods to weaving knitting finishing and joining techniques development of high performance apparel is covered in part two with particular emphasis on design and product development for function and wearer comfort part three covers a range of applications and wearable technology that make use of high performance apparel including chapters on sportswear protective clothing and medical military and intelligent textiles the book provides an excellent resource for all those engaged in garment development and production and for academics engaged in research into apparel technology and textile science offers a range of perspectives on high performance apparel

from an international team of authors with diverse expertise provides systematic and comprehensive coverage of the topic from fabric construction through apparel design and development to the range of current and potential applications presents an excellent resource for all those engaged in garment development and production and for academics engaged in research

this book constitutes the proceedings of the 18th international conference on cryptographic hardware and embedded systems ches 2016 held in santa barbara ca usa in august 2016 the 30 full papers presented in this volume were carefully reviewed and selected from 148 submissions they were organized in topical sections named side channel analysis automotive security invasive attacks side channel countermeasures new directions software implementations cache attacks physical unclonable functions hardware implementations and fault attacks

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

the intel galileo board is the first in a family of arduino certified development and prototyping boards based on intel architecture microsoft provides windows for iot program which we can build and deploy application on top of intel galileo board using windows platform this book helps you getting started with windows for iot program and intel galileo the following is a list of highlight topics preparing development environment deploying windows iot on intel galileo digital i o analog i o serial communication working with spi and i2c

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

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