



Community Experience Distilled

Android for the BeagleBone Black

Design and implement Android apps that interface with your own custom hardware circuits and the BeagleBone Black

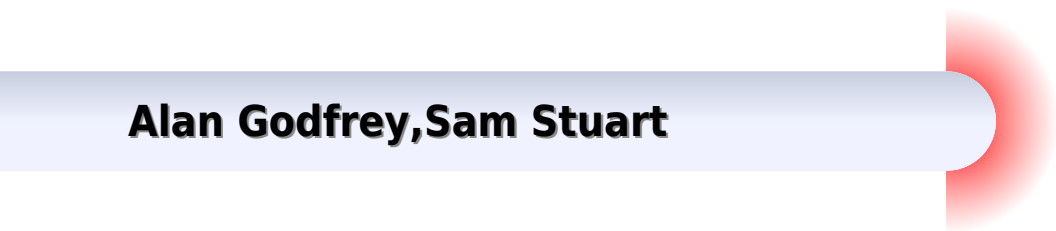
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Android Hardware Interfacing With The Beaglebone Black

Alan Godfrey, Sam Stuart



Android Hardware Interfacing With The Beaglebone Black:

Android for the BeagleBone Black Andrew Henderson, Aravind Prakash, 2015-02-19 If you are an Android app developer who wants to experiment with the hardware capabilities of the BeagleBone Black platform then this book is ideal for you You are expected to have basic knowledge of developing Android apps but no prior hardware experience is required

Building Networks and Servers Using BeagleBone Bill Pretty, Glenn Vander Veer, 2015-05-28 If you are a developer with BeagleBone experience and want to learn how to use it to set up a network and file server then this book is ideal for you To make the most of this book you should be comfortable with the Linux operating system and know how to install software from the Internet but you do not have to be a network guru

BeagleBone Essentials Rodolfo Giometti, 2015-05-28 If you are a developer with some hardware or electrical engineering experience who wants to learn how to use embedded machine learning capabilities and get access to a GNU Linux device driver to collect data from a peripheral or to control a device this is the book for you

[Python for Secret Agents - Volume II](#) Steven Lott, 2015-12-08 Gather analyze and decode data to reveal hidden facts using Python the perfect tool for all aspiring secret agents About This Book Discover the essential features of Python programming statements variables expressions and many of the built in data types Use Python s standard library to do more sophisticated data gathering and analysis Written by a Python programming expert with over 35 years experience as a consultant teacher author and software developer Who This Book Is For This book is for Secret Agents who have some exposure to Python Our focus is on the Field Agents who are ready to do more sophisticated and complex programming in Python We ll stick to simple statistics for the most part A steady hand with a soldering iron is not required but a skilled field agent should be able to assemble a working Arduino circuit to gather their own sensor data What You Will Learn Upgrade Python to the latest version and discover its latest and greatest tools Use Python libraries to extract data from log files that are designed more for people to read than for automated analysis Summarize log files and extract meaningful information Gather data from social networking sites and leverage your experience of analyzing log files to summarize the data you find Extract text and images from social networking sites Parse the complex and confusing data structures in a PDF file to extract meaningful text that we can analyze Connect small intelligent devices to our computer to use them as remote sensors Use Python to analyze measurements from sensors to calibrate them and use sensors efficiently In Detail Python is easy to learn and extensible programming language that allows any manner of secret agent to work with a variety of data Agents from beginners to seasoned veterans will benefit from Python s simplicity and sophistication The standard library provides numerous packages that move beyond simple beginner missions The Python ecosystem of related packages and libraries supports deep information processing This book will guide you through the process of upgrading your Python based toolset for intelligence gathering analysis and communication You ll explore the ways Python is used to analyze web logs to discover the trails of activities that can be found in web and database servers We ll also look at how we can use Python to discover

details of the social network by looking at the data available from social networking websites Finally you ll see how to extract history from PDF files which opens up new sources of data and you ll learn about the ways you can gather data using an Arduino based sensor device Style and approach Each chapter will include a background briefing that covers an essential Python technology After some in depth exploration of the features the chapter will conclude with a mission that is a concrete application of the Python tools and techniques covered

Exploring BeagleBone Derek Molloy,2019-01-07 In depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands on guide to bringing gadgets gizmos and robots to life using the popular BeagleBone embedded Linux platform Comprehensive content and deep detail provide more than just a BeagleBone instruction manual you ll also learn the underlying engineering techniques that will allow you to create your own projects The book begins with a foundational primer on essential skills and then gradually moves into communication control and advanced applications using C C allowing you to learn at your own pace In addition the book s companion website features instructional videos source code discussion forums and more to ensure that you have everything you need The BeagleBone s small size high performance low cost and extreme adaptability have made it a favorite development platform and the Linux software base allows for complex yet flexible functionality The BeagleBone has applications in smart buildings robot control environmental sensing to name a few and expansion boards and peripherals dramatically increase the possibilities Exploring BeagleBone provides a reader friendly guide to the device including a crash course in computer engineering While following step by step you can Get up to speed on embedded Linux electronics and programming Master interfacing electronic circuits buses and modules with practical examples Explore the Internet connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications including video and sound Explore the BeagleBone s Programmable Real Time Controllers Updated to cover the latest Beagle boards Linux kernel versions and Linux software releases Includes new content on Linux kernel development the Linux Remote Processor Framework CAN bus IoT frameworks and much more Hands on learning helps ensure that your new skills stay with you allowing you to design with electronics modules or peripherals even beyond the BeagleBone Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone the practical handbook for the popular computing platform

Emerging Trends in Electrical, Communications, and Information Technologies T. Hitendra Sarma,V. Sankar,Rafi Ahamed Shaik,2019-09-24 This book includes original peer reviewed research from the 3rd International Conference on Emerging Trends in Electrical Communication and Information Technologies ICECIT 2018 held at Srinivasa Ramanujan Institute of Technology Ananthapuramu Andhra Pradesh India in December 2018 It covers the latest research trends and developments in the areas of Electrical Engineering Electronic and Communication Engineering and Computer Science and Information

Bad to the Bone Steven Barrett,Jason Kridner,2022-06-01 BeagleBone Black is a low cost open hardware computer

uniquely suited to interact with sensors and actuators directly and over the Web Introduced in April 2013 by BeagleBoard org a community of developers first established in early 2008 BeagleBone Black is used frequently to build vision enabled robots home automation systems artistic lighting systems and countless other do it yourself and professional projects BeagleBone variants include the original BeagleBone and the newer BeagleBone Black both hosting a powerful 32 bit super scalar ARM Cortex A8 processor capable of running numerous mobile and desktop capable operating systems typically variants of Linux including Debian Android and Ubuntu Yet BeagleBone is small enough to fit in a small mint tin box The Bone may be used in a wide variety of projects from middle school science fair projects to senior design projects to first prototypes of very complex systems Novice users may access the power of the Bone through the user friendly BoneScript software experienced through a Web browser in most major operating systems including Microsoft Windows Apple Mac OS X or the Linux operating systems Seasoned users may take full advantage of the Bone s power using the underlying Linux based operating system a host of feature extension boards Capes and a wide variety of Linux community open source libraries This book provides an introduction to this powerful computer and has been designed for a wide variety of users including the first time novice through the seasoned embedded system design professional The book contains background theory on system operation coupled with many well documented illustrative examples Examples for novice users are centered on motivational fun robot projects while advanced projects follow the theme of assistive technology and image processing applications

Beginning NFC Tom Igoe, Don Coleman, Brian Jepson, 2014-01-14 Jump into the world of Near Field Communications NFC the fast growing technology that lets devices in close proximity exchange data using radio signals With lots of examples sample code exercises and step by step projects this hands on guide shows you how to build NFC applications for Android the Arduino microcontroller and embedded Linux devices You ll learn how to write apps using the NFC Data Exchange Format NDEF in PhoneGap Arduino and node js that help devices read messages from passive NFC tags and exchange data with other NFC enabled devices If you know HTML and JavaScript you re ready to start with NFC Dig into NFC s architecture and learn how it s related to RFID Write sample apps for Android with PhoneGap and its NFC plugin Dive into NDEF examine existing tag writer apps and build your own Listen for and filter NDEF messages using PhoneGap event listeners Build a full Android app to control lights and music in your home Create a hotel registration app with Arduino from check in to door lock Write peer to peer NFC messages between two Android devices Explore embedded Linux applications using examples on Raspberry Pi and BeagleBone

Internet of Things (IoT) Mansaf Alam, Kashish Ara Shakil, Samiya Khan, 2020-05-25 This book s objective is to explore the concepts and applications related to Internet of Things with the vision to identify and address existing challenges Additionally the book provides future research directions in this domain and explores the different applications of IoT and its associated technologies Studies investigate applications for crowd sensing and sourcing as well as smart applications to healthcare solutions agriculture and intelligent disaster management This book

will appeal to students practitioners industry professionals and researchers working in the field of IoT and its integration with other technologies to develop comprehensive solutions to real life problems **Digital Health** Alan Godfrey, Sam Stuart, 2021-07-06 Digital Health Exploring Use and Integration of Wearables is the first book to show how and why engineering theory is used to solve real world clinical applications considering the knowledge and lessons gathered during many international projects This book provides a pragmatic A to Z guide on the design deployment and use of wearable technologies for laboratory and remote patient assessment aligning the shared interests of diverse professions to meet with a common goal of translating engineering theory to modern clinical practice It offers multidisciplinary experiences to guide engineers where no clinically advice and expertise may be available Entering the domain of wearables in healthcare is notoriously difficult as projects and ideas often fail to deliver due to the lack of clinical understanding i e what do healthcare professionals and patients really need This book provides engineers and computer scientists with the clinical guidance to ensure their novel work successfully translates to inform real world clinical diagnosis treatment and management Presents the first guide for wearable technologies in a multidisciplinary and translational manner Helps engineers design real world applications to help them better understand theory and drive pragmatic clinical solutions Combines the expertise of engineers and clinicians in one go to guide accessible to all

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