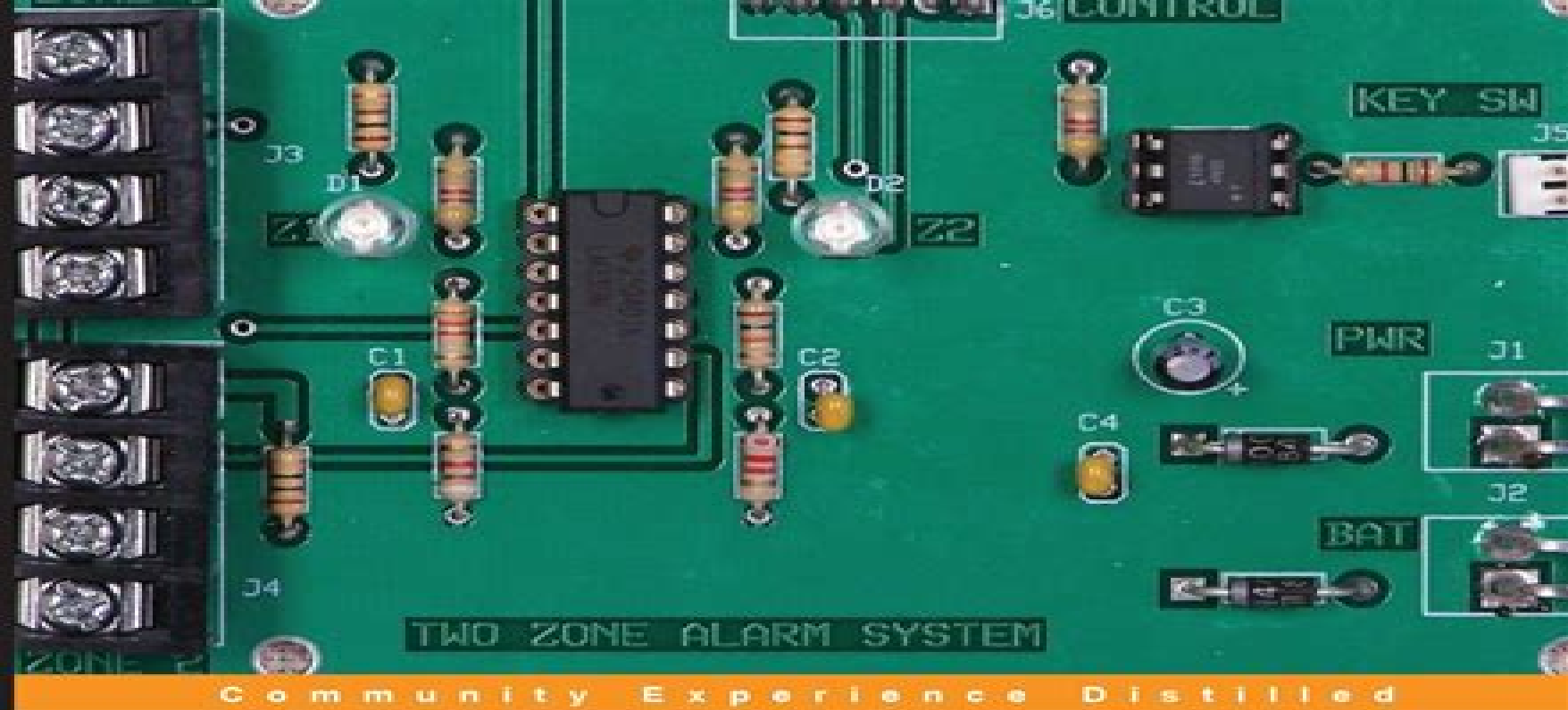




Building a Home Security System with BeagleBone

Build your own high-tech alarm system at a fraction of the cost

Bill Pretty

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Building a Home Security System with BeagleBone Bill Pretty, 2013-12-17 Building a Home Security System with BeagleBone is a practical hands on guide for practical hands on people The book includes step by step instructions for assembling your own hardware on professionally manufactured PCB s and setting up the software on your system This book is for anyone who is interested in alarm systems and how they work for hobbyists and basement tinkerers who love to build things If you want to build the hardware described in this book you will need some basic soldering skills but all the parts are of the thru hole variety and are very easy to put together When it comes to software you can just run it as is but if you want to modify the code you will need knowledge of Java and IDEs **BeagleBone Black Cookbook** Charles A. Hamilton, 2015-11-18 Over 60 recipes and solutions for inventors makers and budding engineers to create projects using the BeagleBone Black About This Book Learn how to develop applications with the BeagleBone Black and open source Linux software Sharpen your expertise in making sophisticated electronic devices Explore the BeagleBone Black with this easy to succeed recipe format Who This Book Is For If you are a hardware Linux and or microcomputing novice or someone who wants more power and possibilities with product prototypes electronic art projects or embedded computing experiments then this book is for you It is for Internet of Things enthusiasts who want to use more sophisticated hardware than the Raspberry Pi or the Arduino can provide Whether you are an engineering student a DIYer an inventor or a budding electronics enthusiast this book delivers accessible easy to succeed instructions for using an advanced microcomputing platform What You Will Learn Set up and run the BeagleBone Black for the first time Learn the basics of microcomputing and Linux using the command line and easy kernel mods Make introductory projects with Python JavaScript BoneScript and Node js Explore physical computing and simple circuits using buttons LEDs sensors and motors Discover the unique features of the BeagleBone Black and its real time computing functions Build intermediate level audio and video applications Assemble and add ingredients for creating Internet of Things prototypes In Detail There are many single board controllers and computers such as Arduino Udoo or Raspberry Pi which can be used to create electronic prototypes on circuit boards However when it comes to creating more advanced projects BeagleBone Black provides a sophisticated alternative Mastering the BeagleBone Black enables you to combine it with sensors and LEDs add buttons and marry it to a variety of add on boards You can transform this tiny device into the brain for an embedded application or an endless variety of electronic inventions and prototypes With dozens of how tos this book kicks off with the basic steps for setting up and running the BeagleBone Black for the first time from connecting the necessary hardware and using the command line with Linux commands to installing new software and controlling your system remotely Following these recipes more advanced examples take you through scripting debugging and working with software source files eventually working with the Linux kernel Subsequently you will learn how to exploit the board s real time functions We will then discover exciting methods for using sound and video with

the system before marching forward into an exploration of recipes for building Internet of Things projects Finally the book finishes with a dramatic arc upward into outer space when you explore ways to build projects for tracking and monitoring satellites Style and approach This comprehensive recipe book deconstructs a complex often confusing piece of technology and transforms it to become accessible and fun with snappy unintimidating prose and extensive easy to succeed instructions

BeagleBone Media Center David Lewin,2015-01-31 Whether you are a hobbyist or a professional this book will get you fully equipped to resolve the most commonly occurring media related challenges If you want to expand your horizons beyond lighting an LED and push the limits of your board this is just the book for you Working knowledge of BeagleBone is assumed

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

Getting Started with Electronic Projects Bill Pretty,2015-01-13 This book is aimed at hobbyists with basic knowledge of electronics circuits Whether you are a novice electronics project builder a ham radio enthusiast or a BeagleBone tinkerer you will love this book

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

BeagleBone By Example Jayakarthygeyan Prabakar,2016-08-31 Learn how to build physical computing systems using BeagleBone Black and Python About This Book

Get to grips with the fundamentals of BeagleBone Leverage Python scripts to program BeagleBone for your requirements Build four exciting projects from home automation to a tele controlled robot Who This Book Is For This book is intended for hobbyists and consumers who wish to create impressive projects using BeagleBone You must be familiar with Python programming What You Will Learn Program on BeagleBone Black using Python Interface sensors and actuators to BeagleBone Black Build your own real time physical computing systems Connect physical computing systems to cloud servers Build your own home automation and home security system Build your own tele controlled robot with real time video streaming In Detail BeagleBone is a low cost community supported development platform to develop a variety of electronic projects This book will introduce you to BeagleBone and get you building fun cool and innovative projects with it Start with the specifications of BeagleBone Black and its operating systems then get to grips with the GPIOs available in BeagleBone Black Work through four types of exciting projects building real time physical computing systems home automation image processing for a security system and building your own tele controlled robot and learn the fundamentals of a variety of projects in a single book By the end of this book you will be able to write code for BeagleBone in order to operate hardware and impart decision making capabilities with the help of efficient coding in Python Style and approach This book is a step by step guide that will walk you through the fundamentals of building different projects using BeagleBone Black

Troubleshooting CentOS Jonathan Hobson,2015-06-24 CentOS is the enterprise grade Linux operating system built using the same source code as Red Hat Enterprise Linux RHEL to provide a free to use alternative to Red Hat s commercial Linux offering The purpose of this book is to build on your understanding of CentOS and to explore those mission critical services you are entrusted to manage and maintain Starting with a brief introduction to the overall subject of troubleshooting a CentOS server this book will take you on a journey across the whole spectrum of issue based problem solving which includes active processes the networking environment package management users folders files shared resources security databases and web based services By the end of the book you will have expert level competency in identifying and diagnosing the root causes of CentOS storage network and administration issues and resolving them **Exploring BeagleBone** Derek Molloy,2014-12-31 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 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

Cyber Security of Industrial Control Systems in the Future Internet Environment Stojanović, Mirjana D.,Boštjančič Rakas, Slavica V.,2020-02-21 In today s modernized market many fields are utilizing internet technologies in their everyday methods of operation The industrial sector is no different as these technological solutions have provided several benefits including reduction of costs scalability and efficiency improvements Despite this cyber security remains a crucial risk factor in industrial control systems The same public and corporate solutions do not apply to this specific district because these security issues are more complex and intensive Research is needed that explores new risk assessment methods and security mechanisms that professionals can apply to their modern technological procedures Cyber Security of Industrial Control Systems in the Future Internet Environment is a pivotal reference source that provides vital research on current security risks in critical infrastructure schemes with the implementation of information and communication technologies While highlighting topics such as intrusion detection systems forensic challenges and smart grids this publication explores specific security solutions within industrial sectors that have begun applying internet technologies to their current methods of operation This book is ideally designed for researchers system engineers managers networkers IT professionals analysts academicians and students seeking a better understanding of the key issues within securing industrial control systems that utilize internet technologies

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