
Getting Started With Beaglebone Linux Powered Electronic

BeagleBone Cookbook

Tools and Techniques for Building with Embedded Linux

BeagleBone Home Automation Blueprints

BeagleBone Black Cookbook

BeagleBone For Dummies

Electronic Projects with Python, Scratch, and Linux

Programming the BeagleBone

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Getting Started with Raspberry Pi
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Software and Hardware Problems and Solutions

Learn Raspberry Pi with Linux
Getting Started With Raspberry Pi
Mastering BeagleBone Robotics
Measure the World with Electronics, Arduino, and Raspberry Pi

*Getting Started With
Beaglebone Linux
Powered Electronic*

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LESTER WATTS

Packt Publishing Ltd
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.

BeagleBone Cookbook PE Press

If you have some experience with the BeagleBone or similar embedded systems and want to learn more about security and privacy, this book is for you. Alternatively, if you have a security and privacy background and want to learn

more about embedded development, this book is for you. You should have some familiarity with Linux systems and with the C and Python programming languages.

Tools and Techniques for Building with Embedded Linux Que Publishing

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.

BeagleBone Home Automation

Blueprints Packt Publishing Ltd

Master BeagleBone programming by doing simple electronics and Internet of Things projects About This Book Quickly

develop electronics projects that interact with Internet applications using JavaScript and Python Learn about electronics components such as sensors and motors, and how to communicate with them by writing programs A step-by-step guide to explore the exciting world of BeagleBone—from connecting BeagleBone to doing electronics projects and creating IoT applications Who This Book Is For If you want to learn programming on embedded systems with BeagleBone by doing simple electronics projects, this book is for you. This book is also helpful to BeagleBone owners who want to quickly implement small-scale home automation solutions. It is assumed that you have familiarity with C and Python programming. Some familiarity with electronics is helpful but

not essential. What You Will Learn
Connect your BeagleBone to a computer in different ways and get the Cloud9 IDE running to quick-start programming on the BeagleBone Get to know about BeagleBone extension pins such as GPIO and how to connect various electronics components with BeagleBone Read and write to various electronics components such as LED, Push-button, sensors, and motors Grasp in-depth theory on Analog, PWM, and BUS programming and the electronics components used in programs Handle data to and from various BUS supporting modules such as UART, I2C, and SPI using the Adafruit BBIO Python library Write real-life IoT applications in JavaScript and Python such as shooting an e-mail on overheat and controlling a servo motor remotely

Make use of online free cloud services to store and analyze sensor data collected on the BeagleBone Discover what else can be done using the BeagleBone Get to grips with embedded system BUS communication In Detail The whole world is moving from desktop computers to smartphones and embedded systems. We are moving towards utilizing Internet of Things (IoT). An exponential rise in the demand for embedded systems and programming in the last few years is driving programmers to use embedded development boards such as Beaglebone. BeagleBone is an ultra-small, cost-effective computer that comes with a powerful hardware. It runs a full-fledged Debian Linux OS and provides numerous electronics solutions. BeagleBone is open source and comes

with an Ethernet port, which allows you to deploy IoT projects without any additions to the board. It provides plenty of GPIO, Analog pins, and UART, I2C, SPI pins which makes it the right choice to perform electronics projects. This gives you all the benefits of Linux kernel such as multitasking, multiusers, and extensive device driver support. This allows you to do programming in many languages including high-level languages such as JavaScript and Python. This book aims to exploit the hardware and software capabilities of BeagleBone to create real-life electronics and IoT applications quickly. It is divided into two parts. The first part covers JavaScript programs. The second part provides electronics projects and IoT applications in Python. First, you will

learn to use BeagleBone as tool to write useful applications on embedded systems. Starting with the basics needed to set up BeagleBone and the Cloud9 IDE, this book covers interfacing with various electronics components via simple programs. The electronics theory related to these components is then explained in depth before you use them in a program. Finally, the book helps you create some real-life IoT applications. Style and approach An easy-to-follow guide full of real-world electronics programs and quick troubleshooting tips using BeagleBone. All the required electronics concepts are explained in detail before using them in a program and all programs are explained in depth. Most of the theory is covered in the first part; while the second part gives you

some quick programs.

BeagleBone Black Cookbook Maker Media, Inc.

MATLAB provides APIs to access BeagleBone Black board. This book helps you to get started with BeagleBone Black Programming using Matlab. The following the highlight: * Preparing Development Environment * Setting up BeagleBone Black Development for MATLAB * Working with GPIO * Working with PWM and ADC * Working with I2C * Working with SPI * Working with Serial Port * Working with Web Camera * Working with BeagleBone Black Linux Command * Measuring and Plotting Sensor Data in Real-Time
[BeagleBone For Dummies](#) "O'Reilly Media, Inc."
 Automate and control your home using

the power of the BeagleBone Black with practical home automation projects About This Book Build, set up, and develop your circuits via step-by-step tutorial of practical examples, from initial board setup to device driver management Get access to several kinds of computer peripherals to monitor and control your domestic environment using this guide This book is spread across 10 chapters all focused on one practical home automation project Who This Book Is For This book is for developers who know how to use BeagleBone and are just above the “beginner” level. If you want to learn to use embedded machine learning capabilities, you should have some experience of creating simple home automation projects. What You Will Learn Build a CO (and other gas)

sensor with a buzzer/LED alarm to signal high concentrations Log environment data and plot it in a fancy manner Develop a simple web interface with a LAMP platform Prepare complex web interfaces in JavaScript and get to know how to stream video data from a webcam Use APIs to get access to a Google Docs account or a WhatsApp/Facebook account to manage a home automation system Add custom device drivers to manage an LED with different blinking frequencies Discover how to work with electronic components to build small circuits Use an NFS, temperature sensor, relays, and other peripherals to monitor and control your surroundings In Detail BeagleBone is a microboard PC that runs Linux. It can connect to the Internet and can run OSes

such as Android and Ubuntu. BeagleBone is used for a variety of different purposes and projects, from simple projects such as building a thermostat to more advanced ones such as home security systems. Packed with real-world examples, this book will provide you with examples of how to connect several sensors and an actuator to the BeagleBone Black. You'll learn how to give access to them, in order to realize simple-to-complex monitoring and controlling systems that will help you take control of the house. You will also find software examples of implementing web interfaces using the classical PHP/HTML pair with JavaScript, using complex APIs to interact with a Google Docs account, WhatsApp, or Facebook. This guide is an invaluable

tutorial if you are planning to use a BeagleBone Black in a home automation project. Style and approach This step-by-step guide contains several home automation examples that can be used as base projects for tons of other home automation and control systems. Through clear, concise examples based on real-life situations, you will quickly get to grips with the core concepts needed to develop home automation applications with the BeagleBone Black using both the C language and high-level scripting languages such as PHP, Python, and JavaScript.

Electronic Projects with Python, Scratch, and Linux McGraw Hill Professional

This comprehensive book provides detailed materials for both novice and

experienced programmers using all BeagleBone variants which host a powerful 32-bit, super-scalar TI Sitara ARM Cortex A8 processor. Authored by Steven F. Barrett and Jason Kridner, a seasoned ECE educator along with the founder of Beagleboard.org, respectively, the work may be used in a wide variety of projects from science fair projects to university courses and senior design projects to first prototypes of very complex systems. Beginners may access the power of the "Bone" through the user-friendly Bonescript examples. 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. 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. Key Features: - Provides detailed examples for all BeagleBone variants, including the newest "next generation" BeagleBone Black - BeagleBone is a low cost, open hardware, expandable computer first introduced in november 2011 by beagleboard - BeagleBone variants, including the original BeagleBone and the new beaglebone black, hosts a powerful 32-bit, super-scalar arM Cortex A8 processor - BeagleBone is small enough to fit in a small mint tin box -

"Bone" may be used in a wide variety of projects from middle school science fair projects to university courses and senior design projects to first prototypes of very complex systems - Novice users may access the power of the bone through the user-friendly bonescript environment - 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 are available - The book provides an introduction to this powerful computer and has been designed for a wide variety of users - 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 - Advanced projects follow the theme of assistive technology and image processing applications

Programming the BeagleBone Maker Media, Inc.

An annotated guide to program and develop GNU/Linux Embedded systems quickly About This Book Rapidly design and build powerful prototypes for GNU/Linux Embedded systems Become familiar with the workings of GNU/Linux Embedded systems and how to manage its peripherals Write, monitor, and configure applications quickly and effectively, manage an external micro-controller, and use it as co-processor for real-time tasks Who This Book Is For This book targets Embedded System developers and GNU/Linux programmers

who would like to program Embedded Systems and perform Embedded development. The book focuses on quick and efficient prototype building. Some experience with hardware and Embedded Systems is assumed, as is having done some previous work on GNU/Linux systems. Knowledge of scripting on GNU/Linux is expected as well. What You Will Learn Use embedded systems to implement your projects Access and manage peripherals for embedded systems Program embedded systems using languages such as C, Python, Bash, and PHP Use a complete distribution, such as Debian or Ubuntu, or an embedded one, such as OpenWrt or Yocto Harness device driver capabilities to optimize device communications Access data through

several kinds of devices such as GPIO's, serial ports, PWM, ADC, Ethernet, WiFi, audio, video, I2C, SPI, One Wire, USB and CAN Practical example usage of several devices such as RFID readers, Smart card readers, barcode readers, z-Wave devices, GSM/GPRS modems Usage of several sensors such as light, pressure, moisture, temperature, infrared, power, motion In Detail Embedded computers have become very complex in the last few years and developers need to easily manage them by focusing on how to solve a problem without wasting time in finding supported peripherals or learning how to manage them. The main challenge with experienced embedded programmers and engineers is really how long it takes to turn an idea into reality, and we show you exactly how to

do it. This book shows how to interact with external environments through specific peripherals used in the industry. We will use the latest Linux kernel release 4.4.x and Debian/Ubuntu distributions (with embedded distributions like OpenWrt and Yocto). The book will present popular boards in the industry that are user-friendly to base the rest of the projects on - BeagleBone Black, SAMA5D3 Xplained, Wandboard and system-on-chip manufacturers. Readers will be able to take their first steps in programming the embedded platforms, using C, Bash, and Python/PHP languages in order to get access to the external peripherals. More about using and programming device driver and accessing the peripherals will be covered to lay a strong foundation.

The readers will learn how to read/write data from/to the external environment by using both C programs or a scripting language (Bash/PHP/Python) and how to configure a device driver for a specific hardware. After finishing this book, the readers will be able to gain a good knowledge level and understanding of writing, configuring, and managing drivers, controlling and monitoring applications with the help of efficient/quick programming and will be able to apply these skills into real-world projects. Style and approach This practical tutorial will get you quickly prototyping embedded systems on GNU/Linux. This book uses a variety of hardware to program the peripherals and build simple prototypes.

The BeagleBone Black Primer Packt

Publishing Ltd
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 John Wiley & Sons

Many people think of Linux as a computer operating system, running on users' desktops and powering servers. But Linux can also be found inside many consumer electronics devices. Whether they're the brains of a cell phone, cable

box, or exercise bike, embedded Linux systems blur the distinction between computer and device. Many makers love microcontroller platforms such as Arduino, but as the complexity increases in their projects, they need more power for applications, such as computer vision. The BeagleBone is an embedded Linux board for makers. It's got built-in networking, many inputs and outputs, and a fast processor to handle demanding tasks. This book introduces you to both the original BeagleBone and the new BeagleBone Black and gets you started with projects that take advantage of the board's processing power and its ability to interface with the outside world.

Crafting Electronic Systems with BeagleBone and BeagleBone Black

Maker Media, Inc.

What can you do with the Raspberry Pi, a \$35 computer the size of a credit card? All sorts of things! If you're learning how to program, or looking to build new electronic projects, this hands-on guide will show you just how valuable this flexible little platform can be. This book takes you step-by-step through many fun and educational possibilities. Take advantage of several preloaded programming languages. Use the Raspberry Pi with Arduino. Create Internet-connected projects. Play with multimedia. With Raspberry Pi, you can do all of this and more. Get acquainted with hardware features on the Pi's board. Learn enough Linux to move around the operating system. Pick up the basics of Python and Scratch—and start

programming Draw graphics, play sounds, and handle mouse events with the Pygame framework Use the Pi's input and output pins to do some hardware hacking Discover how Arduino and the Raspberry Pi complement each other Integrate USB webcams and other peripherals into your projects Create your own Pi-based web server with Python

30 BeagleBone Black Projects for the Evil Genius Packt Publishing Ltd

The Yocto Project produces tools and processes that enable the creation of Linux distributions for embedded software, independent of the architecture. BeagleBone Black is a platform that allows users to perform installation and customizations to their liking, quickly and easily. Starting with a

basic introduction to Yocto Project's build system, this book will take you through the setup and deployment steps for Yocto Project. You will develop an understanding of BitBake, learn how to create a basic recipe, and explore the different types of Yocto Project recipe elements. Moving on, you will be able to customize existing recipes in layers and create a home surveillance solution using your webcam, as well as creating other advanced projects using BeagleBone Black and Yocto Project. By the end of the book, you will have all the necessary skills, exposure, and experience to complete projects based on Yocto Project and BeagleBone Black. *Electronic Projects with the Quark-Powered Arduino-Compatible Board* PE Press

Learn Raspberry Pi with Linux will tell you everything you need to know about the Raspberry Pi's GUI and command line so you can get started doing amazing things. You'll learn how to set up your new Raspberry Pi with a monitor, keyboard and mouse, and you'll discover that what may look unfamiliar in Linux is really very familiar. You'll find out how to connect to the internet, change your desktop settings, and you'll get a tour of installed applications. Next, you'll take your first steps toward being a Raspberry Pi expert by learning how to get around at the Linux command line. You'll learn about different shells, including the bash shell, and commands that will make you a true power user. Finally, you'll learn how to create your first Raspberry Pi projects: Making a Pi

web server: run LAMP on your own network Making your Pi wireless: remove all the cables and retain all the functionality Making a Raspberry Pi-based security cam and messenger service: find out who's dropping by Making a Pi media center: stream videos and music from your Pi Raspberry Pi is awesome, and it's Linux. And it's awesome because it's Linux. But if you've never used Linux or worked at the Linux command line before, it can be a bit daunting. Raspberry Pi is an amazing little computer with tons of potential. And Learn Raspberry Pi with Linux can be your first step in unlocking that potential.

Using Yocto Project with BeagleBone Black Apress

BUILD YOUR OWN REMOTE-CONTROLLED

AIRPLANES QUICKLY, EASILY, AND INEXPENSIVELY! Take to the skies with a majestic motorized model aircraft you create and pilot yourself. Written by the founder of the Brooklyn Aerodrome, DIY RC Airplanes from Scratch shows you how to build a Flack (Flying + Hack) delta wing from the ground up using widely available, low-cost materials and tools. You'll also learn the skills you need to get your plane into the air and keep it there. By the end of the book, you'll be able to create your own customized designs. The sky's the limit! Discover how to: Select the components you'll need and get them at a low cost Build a sturdy deck and secure all of your airplane's electronics to it Construct the airframe with the proper trim and center of gravity Learn to fly--one crash at a

time Diagnose and repair your airplane Decorate your aircraft for dazzling daytime flights Illuminate a night flyer with otherworldly effects Experiment with unique airframe shapes, including the Flying Heart, the Bat, and the Manta Ray Learn the basics of aerodynamics Devise, build, and fly your own unique designs Companion videos available at <http://brooklynaerodrome.com/bible> BeagleBone Black Programming by Example Packt Publishing Ltd Expand Raspberry Pi capabilities with fundamental engineering principles Exploring Raspberry Pi is the innovators guide to bringing Raspberry Pi to life. This book favors engineering principles over a 'recipe' approach to give you the skills you need to design and build your own projects. You'll understand the

fundamental principles in a way that transfers to any type of electronics, electronic modules, or external peripherals, using a "learning by doing" approach that caters to both beginners and experts. The book begins with basic Linux and programming skills, and helps you stock your inventory with common parts and supplies. Next, you'll learn how to make parts work together to achieve the goals of your project, no matter what type of components you use. The companion website provides a full repository that structures all of the code and scripts, along with links to video tutorials and supplementary content that takes you deeper into your project. The Raspberry Pi's most famous feature is its adaptability. It can be used for thousands of electronic applications, and

using the Linux OS expands the functionality even more. This book helps you get the most from your Raspberry Pi, but it also gives you the fundamental engineering skills you need to incorporate any electronics into any project. Develop the Linux and programming skills you need to build basic applications Build your inventory of parts so you can always "make it work" Understand interfacing, controlling, and communicating with almost any component Explore advanced applications with video, audio, real-world interactions, and more Be free to adapt and create with Exploring Raspberry Pi.

Getting Started with BeagleBone
Packt Publishing Ltd
The BeagleBone is a tiny computer board about the size of a credit card and

which has all the capability of a desktop. This volume guides you step-by-step throughout the process of getting acquainted with your BeagleBone Original or BeagleBoneBlack. You'll learn how to get set up, use the software, build the hardware, and code your projects, with plenty of examples to walk you through the process. You'll move carefully through your first BeagleBone project, then get ideas for even better, more advanced programs.

DIY RC Airplanes from Scratch Morgan & Claypool Publishers

The BeagleBone Black Primer Master BeagleBone Black: Today's most powerful low-cost embedded development platform! You can do amazing things with BeagleBone Black. Get started in just five minutes: all you

need is a USB cable and this easy, hands-on primer! Brian McLaughlin teaches you enough to be seriously dangerous. Start with the simplest embedded programming concepts. Explore BeagleBone Black's capabilities, and learn all the essentials, from controlling I/O to establishing network connections. Then, step by step, master increasingly advanced techniques with the Cloud9 IDE and BoneScript...Integrate external hardware...Install Linux or Android...Use Cape expansion boards to do even more. Don't just learn it: do it. This guide is packed with projects, from weather stations, to car computers, to a "capstone" project using Software Defined Radio to capture signals from local airspace and orbiting satellites! You

won't just put BeagleBone Black to work: you'll start imagining great projects of your own. And then you'll build them. Discover how BeagleBone Black works, and what it can do Get your BeagleBone Black—and get it working, fast Link your BeagleBone Black to the world, and link yourself to the global BeagleBone community Learn to read schematics and use them to connect hardware Prototype your projects with breadboards Extend BeagleBone Black with Capes Add sensors to capture and use data from the environment Use actuators to make things happen in the real world Make your BeagleBone Black recognize your face Learn from mistakes, and go beyond what you've already learned Brian McLaughlin is an engineer by profession and by hobby.

Building on a solid foundation in software, he was first exposed to advanced hardware topics while working on the Hubble Space Telescope. After working for Lockheed Martin, he joined NASA, where he's supported many of NASA's most exciting missions. He holds a B.S. in computer science (North Carolina State University) and an M.S. in systems engineering (University of Maryland). He's also written for GeekDad and is a member of the growing Maker community.

[Mastering Embedded Linux Programming](#)
Elsevier

BeagleBone is a barebone computer that can be configured and customized for different applications and is almost half the price of a standard computer. This book will cover the basics of how

BeagleBone Black's hardware interface subsystems work, and can be controlled using two popular Python libraries for BeagleBone Black. You will be introduced to BeagleBone Black's GPIO, PWM, ADC, UART, SPI, I2C, and eQEP subsystems. We will then dive deep into more complex built-in peripherals, demonstrating different ways to receive input from a user including buttons, potentiometers, and rotary encoders with the eQEP module. We will also learn about interfacing with external devices; this will be demonstrated using the serial modules to interface with external devices such as temperature sensors and accelerometers. Towards the end of the book, we will present a couple of real-world problems and demonstrate how to solve them with the skills you've

acquired.

Getting Started with BeagleBone McGraw Hill Professional

Develop practical example projects with detailed explanations; combine the projects in a vast number of ways to create different robot designs, or work through them in sequence to discover the full capability of the BeagleBone Black. This book is for anyone who is curious about using new, low-cost hardware to create robotic projects that have previously been the domain of research labs, major universities or Defence departments. Some programming experience would be useful, but if you know how to use a personal computer, you can use this book to construct far more complex systems than you would have thought

possible.

Linux for Embedded and Real-time Applications "O'Reilly Media, Inc."

BeagleBone is an inexpensive web server, Linux desktop, and electronics hub that includes all the tools you need to create your own projects—whether it's robotics, gaming, drones, or software-defined radio. If you're new to BeagleBone Black, or want to explore more of its capabilities, this cookbook provides scores of recipes for connecting and talking to the physical world with this credit-card-sized computer. All you need is minimal familiarity with computer programming and electronics. Each recipe includes clear and simple

wiring diagrams and example code to get you started. If you don't know what BeagleBone Black is, you might decide to get one after scanning these recipes. Learn how to use BeagleBone to interact with the physical world Connect force, light, and distance sensors Spin servo motors, stepper motors, and DC motors Flash single LEDs, strings of LEDs, and matrices of LEDs Manage real-time input/output (I/O) Work at the Linux I/O level with shell commands, Python, and C Compile and install Linux kernels Work at a high level with JavaScript and the BoneScript library Expand BeagleBone's functionality by adding capes Explore the Internet of Things

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