

# Get Free Beaglebone Black Projects

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*Beaglebone Black Projects  
Book Review Getting Started  
with the Beagle Bone Black*

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Beaglebone Black CAN Cape  
Project Demo Top 30  
Mysterious Government

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Projects 7\" BeagleBone  
Capes *Advancements in  
Robotics: Using BeagleBone  
Black* ~~Beaglebone: Video  
Capture and Image Processing  
on Embedded Linux using  
OpenCV~~ *Projects with Ryan  
Slaugh: Boosting a*

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*BeagleBone Black* ~~BeagleBone Black VS Raspberry Pi!~~ **Atari Portfolio Inspired BeagleBone Black Wireless Computer The RPiCluster** ~~Build the Auduino Granular Synth — Part 1 Spectrum Analyzer using Beaglebone~~

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~~Black and RTL-SDR~~ **The Making Of BeagleBone Black** **How to use GPIO pins on the Beaglebone Black** *BeagleBone Black demo* *BeagleBone Blue | Getting Started* ~~Weekend Projects~~ ~~Android~~ ~~Arduino~~ ~~LED Strip Lights~~ ~~Lecture 15:~~



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~~Booting Process BeagleBone Black specs | Just Board Yocto beaglebone black ubuntu20.04~~ **BeagleBone Black Is Here and It's Only \$45!**  
*Quick Start of Embedded Linux on Beagle Bone Black*  
*How-To: Get Started with the*

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~~BeagleBone Motion Control  
with BeagleBone Black or  
Raspberry Pi and ClearPath-  
SC Servos Bioloid humanoid  
robot controlled by  
BeagleBone Black board~~

---

Building Amazing Robots with  
the BeagleBone Black *Arduino*

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*\u0026 Beaglebone Black  
(Serial Peripheral  
Interface) SPI example*

## **Beaglebone Black Projects**

BeagleBone Black Projects.  
Gaming Cape. Transform your  
BeagleBone into a full  
fledged hand-held gaming

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console. Ubuntu on Beagle.  
Run Ubuntu Linux  
distribution on your  
BeagleBone Black. Oracle  
Java. Oracle Java Platform,  
Standard Edition (Java SE)  
including the Java  
Development Kit (JDK) and

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JavaFX for ARM. PRU Cape.

**BeagleBone Black -**

**BeagleBoard.org - black**

57 The GPIOD in the

BeagleBone Black relies on

Python wrappers to work. Our

project allows Python code

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to work with the GPIO directly.

## **BeagleBoard Projects**

Visit the 'Beagleboard Community for Beaglebone' group on [element14.com](http://element14.com). BeagleBone Black is the

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latest in the BeagleBoard series. Placed at a lower-cost, utilising the Sitara™ AM3358 ARM® Cortex™ - A8 processor from Texas Instruments. Utilising Android, Ubuntu or Angstrom your BeagleBone Black

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Project possibilities are endless.

**8 Best Beaglebone Black Projects images | beaglebone black ...**

27 Projects tagged with "Beaglebone black"



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BeagleBone Black +  
MachineKit Testing Arcus-3D-  
M2 - Mixed material filament  
printer FLED Honeybee Hive  
Monitoring SortME the  
Computer Vision Robot  
Robotics for the Rest of Us  
Arcus-3D-M1 - Full Color

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Filament Printer Comms  
BBBBBQ BeagleLogic (Yet another) ...

**27 Projects tagged with "Beaglebone black" | Hackaday.io**

You'll learn how to connect

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the BeagleBone Black to your computer and program it, quickly mastering BoneScript and other programming tools so you can get started right away. 30 BeagleBone Black Projects for the Evil Genius is filled with a wide

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variety of do-it-yourself LED, sensor, robotics, display, audio, and spy gadgets. You'll also get tips and techniques that will help you design your own ingenious devices.

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## **30 BeagleBone Black Projects for the Evil Genius eBook**

...

Add to toolboxSee Projects.  
BeagleBone Black is a low-cost, community-supported development platform for developers and hobbyists.

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Boot Linux in under 10 seconds and get started on development in less than 5 minutes with just a single USB cable. A true open hardware, community-supported embedded computer for developers and

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hobbyists.

**BeagleBoard.org BeagleBone Black projects - BeagleBoard**

...

BeagleBone Black Projects.  
Android on Beagle. Provides a stable Google Android base

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port for AM335x, AM35x, AM37x, platforms. Example: Beagleboard-xM, Beaglebone, AM335x EVM, AM335x Starter Kit. Ubuntu on Beagle. Run the Ubuntu distribution on BeagleBoard (can extend to support BeagleBone,



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PandaBoard, etc.) Ångström Distribution.

## **BeagleBoard.org - BeagleBone Black**

A BeagleBone Black is the main brain of the whole operation, running all the

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software that handles the sensors and actuators, and making the navigation decisions in a clever way. The great thing about sailing robots is that they're full green devices; they don't require motors

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that eat up huge amounts of energy.

## **4 Amazing Projects for the BeagleBone - dummies**

Step1: First power up Beaglebone Black by connecting it with PC

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through USB cable. Step2: Wait for a few minutes for the PC to detect BBB. Step3: Open the command terminal and enter the following command for requesting SSH connectivity: ssh [email protected] Now, user has

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logged in as a root in Beaglebone black.

## **Getting started with Beaglebone Black (Part 1/15)**

New projects for beginners and up posted every day. Get inspired with ideas and

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build your own. ... This is a small motor driver based around the L298 dual, H-bridge and the BeagleBone Black. It was typed up in Python. BeagleBone Black and L298 Motor Driver in Python. De Funct.

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## **34 embedded Projects & Tutorials for Beginners and Up ...**

With your BeagleBone Black powered down, insert your newly flashed SD card. It will click when fully

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inserted. Hold down the USER/BOOT button and power up your BeagleBone using either the micro-USB cable or 5V adapter. Your BeagleBone should now be on and running the latest Debian.



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## **Get Started with Beaglebone Black (Headless) - OKdo**

Explore the Linux distribution shipping with Rev C BeagleBone Black, customized with Cloud9 IDE to run JavaScript, Python,

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C, Ruby and more programs  
right out of the box  
Octoscroller and LEDscape  
Drive huge numbers of LEDs  
using the on-board PRU  
microcontrollers on  
BeagleBone Black and an  
interface for building

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graphics with Python and other high-level languages

**BeagleBoard.org - community supported open hardware ...**

In the first two projects, the BeagleBone Black is exposed and has a

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supplementary breadboard circuit. With this project the board is housed in an enclosure, however it's a bit more complicated than that. Once the physical build is complete you'll need to do some clever

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installing of the project above your makerspace or office sink.

**One BeagleBone Black for All Kinds of Weekend Projects**

...

The Beaglebone Black project

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presented here is a software written by Python and Qt and is intended to show the simple control of inputs and outputs (GPIO), the graphic course of input signals GPIO, the configuration and sending and receiving of

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data via the UART interfaces, the display of the PIN configuration of the Beaglebone Black and the graphic display of the signal course at the analog inputs.

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**My Beaglebone Black Project  
download | SourceForge.net**

Built on the proven  
BeagleBoard.org® open source  
Linux approach, BeagleBone®  
AI fills the gap between  
small SBCs and more powerful  
industrial computers. Based



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on the Texas Instruments AM5729, developers have access to the powerful SoC with the ease of BeagleBone® Black header and mechanical compatibility. BeagleBone® AI makes it easy to explore how artificial intelligence

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(AI) can be used in everyday life via the TI C66x digital-signal-processor (DSP) cores and embedded-vision-engine  
...

**BeagleBoard.org - AI**

You can quickly create new

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BeagleBone Black projects in Upverter's online design platform Development boards and open source hardware platforms are an excellent way to start designing a new prototype. These boards are a great option for anyone

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that wants to create a prototype of their new idea and eventually build it into a working product.

**Create Your BeagleBone Black Projects in Upverter ...**  
Building a surveillance

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system with a PIR sensor, the BeagleBone Black and Python. The BeagleBone Black is an outstanding tool for projects that involve the Internet. Access is easy (simply connect it to the router through an Ethernet

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cable), and both Python and JavaScript feature libraries that greatly simplifies matters.

**Programming the BeagleBone Black with Python | Random Nerd ...**

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Short review of Adafruit's Proto Plate for the BeagleBone and BeagleBone Black by ajcc in BeagleBoard on Nov 3, 2020 "Summary The Adafruit Proto Plate was tested out both as a prototyping platform and as

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home for the BeagleBone Black. Its rubber feet made it stay in place while still having a couple of cables more...

**Beagleboard Community for Beaglebone - Element14**



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BeagleBone Black Projects for Beginners - Lifewire Noté /5. Retrouvez 30 BeagleBone Black Projects for the Evil Genius et des millions de livres en stock sur Amazon.fr. Achetez neuf ou d'occasion Amazon.fr - 30

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BeagleBone Black Projects for the Evil ... BeagleBone Black is a low-cost, community-supported development platform for

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Fiendishly Fun Ways to Use the BeagleBone Black! This wickedly inventive guide shows you how to program and build fun and fascinating projects with the BeagleBone Black. You'll learn how to connect the BeagleBone Black

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to your computer and program it, quickly mastering BoneScript and other programming tools so you can get started right away. 30 BeagleBone Black Projects for the Evil Genius is filled with a wide variety

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of do-it-yourself LED, sensor, robotics, display, audio, and spy gadgets. You'll also get tips and techniques that will help you design your own ingenious devices. Features step-by-step instructions

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and helpful illustrations  
Provides full schematic and  
breadboard layout diagrams  
for the projects Includes  
detailed programming code  
Removes the frustration  
factor—all required parts  
are listed along with

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sources Build these and other clever creations: High-powered LED Morse code sender RGB LED fader GPS tracker Temperature sensor Light level indicator Web-controlled rover Plant hydration system Sentinel

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turret 7-segment clock

Display for sensor

information Internet radio

Imperial march indicator

Intruder alert using Twitter

API Lie detector Auto dog

barker



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Learn to build amazing robotic projects using the powerful BeagleBone Black. About This Book Push your creativity to the limit through complex, diverse, and fascinating projects Develop applications with

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the BeagleBone Black and open source Linux software. Sharpen your expertise in making sophisticated electronic devices. Who This Book Is For: This Learning Path is aimed at hobbyists who want to do creative

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projects that make their life easier and also push the boundaries of what can be done with the BeagleBone Black. This Learning Path's projects are for the aspiring maker, casual programmer, and budding

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engineer or tinkerer. You'll need some programming knowledge, and experience of working with mechanical systems to get the complete experience from this Learning Path. What You Will Learn Set up and run the

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BeagleBone Black for the first time Get to know the basics of microcomputing and Linux using the command line and easy kernel mods Develop a simple web interface with a LAMP platform Prepare complex web interfaces in

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JavaScript and get to know how to stream video data from a webcam Find out how to use a GPS to determine where your sailboat is, and then get the bearing and distance to a new waypoint Use a wind sensor to sail

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your boat effectively both  
with and against the wind  
Build an underwater ROV to  
explore the underwater world  
See how to build an  
autonomous Quadcopter In  
Detail BeagleBone is a  
microboard PC that runs

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Linux. It can connect to the Internet and run OSes such as Android and Ubuntu. You can transform this tiny device into a brain for an embedded application or an endless variety of electronic inventions and



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prototypes. This Learning Path starts off by teaching you how to program the BeagleBone. You will create introductory projects to get yourselves acquainted with all the nitty gritty. Then we'll focus on a series of

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projects that are aimed at hobbyists like you and encompass the areas of home automation and robotics. With each project, we'll teach you how to connect several sensors and an actuator to the BeagleBone

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Black. We'll also create robots for land, sea, and water. Yes, really! The books used in this Learning Path are: BeagleBone Black Cookbook BeagleBone Home Automation Blueprints Mastering BeagleBone

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Robotics Style and approach  
This practical guide  
transforms complex and  
confusing pieces of  
technology to become  
accessible with easy- to-  
succeed instructions.  
Through clear, concise

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examples, you will quickly get to grips with the core concepts needed to develop home automation applications with the BeagleBone Black.

In-depth instruction and practical techniques for

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buildingwith the BeagleBone  
embedded Linux platform  
Exploring BeagleBone is a  
hands-on guide to  
bringinggadgets, gizmos, and  
robots to life using the  
popular BeagleBoneembedded  
Linux platform.

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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

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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



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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

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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

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in smartbuildings, robot control, environmental sensing, to name a few;and, expansion boards and peripherals dramatically increase thepossibilities. Exploring BeagleBone provides areader-friendly

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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

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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

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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

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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

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popular computing platform.

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



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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

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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

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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

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projects that take advantage of the board's processing power and its ability to interface with the outside world.

The Yocto Project produces tools and processes that

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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

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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

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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

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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



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experience to complete projects based on Yocto Project and BeagleBone Black.

The definitive, easy-to-use guide to the popular BeagleBone board BeagleBone

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For Dummies is the definitive beginner's guide to using the popular BeagleBone board to learn electronics and programming. Unlike other books that require previous knowledge of electronics, Linux, and

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Python, this one assumes you know nothing at all, and guides you step-by-step throughout the process of getting acquainted with your BeagleBone Original or BeagleBone Black. You'll learn how to get set up, use

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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 branching out from

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there to create even better, more advanced programs. The BeagleBone is a tiny computer board – about the size of a credit card – that has all the capability of a desktop. Its affordability and ease of use has made it

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popular among hobbyists, hardware enthusiasts, and programmers alike, and it's time for you to join their ranks as you officially dive into the world of microcomputers. This book removes the guesswork from

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using the popular BeagleBone board and shows you how to get up and running in no time. Download the operating system and connect your BeagleBone Learn to navigate the desktop environment Start programming with

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Python and Bonescript Build your first project, and find plans for many more To learn BeagleBone, you could spend hours on the Internet and still never find the information you need, or you can get everything you need



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here. This book appeals to all new and inexperienced hobbyists, tinkerers, electronics gurus, hackers, budding programmers, engineers, and hardware geeks who want to learn how to get the most out of their

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powerful BeagleBone.

Build and program projects that tap into the Internet of Things (IoT) using Arduino, Raspberry Pi, and BeagleBone Black! This innovative guide gets you

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started right away working with the most popular processing platforms, wireless communication technologies, the Cloud, and a variety of sensors. You'll learn how to take advantage of the utility and

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versatility of the IoT and connect devices and systems to the Internet using sensors. Each project features a list of the tools and components, how-to explanations with photos and illustrations, and complete

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programming code. All projects can be modified and expanded, so you can build on your skills. The Internet of Things: DIY Projects with Arduino, Raspberry Pi, and BeagleBone Black Covers the basics of Java, C#, Python,

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JavaScript, and other programming languages used in the projects Shows you how to use IBM's Net Beans IDE and the Eclipse IDE Explains how to set up small-scale networks to connect the projects to the Internet

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Includes essential tips for setting up and using a MySQL database. The fun, DIY projects in the book include: Raspberry Pi home temperature measurements  
Raspberry Pi surveillance webcams Raspberry Pi home

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weather station Arduino  
garage door controller  
Arduino irrigation  
controller Arduino outdoor  
lighting controller  
Beaglebone message panel  
Beaglebone remote control  
SDR Machine-to-machine



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demonstration project

Develop practical example projects with detailed explanations; combine the projects in a vast number of ways to create different robot designs, or work

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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

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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

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complex systems than you would have thought possible.

BeagleBone is an inexpensive web server, Linux desktop, and electronics hub that includes all the tools you need to create your own

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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

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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

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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

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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



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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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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

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have basic knowledge of developing Android apps but no prior hardware experience is required.

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