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SDR~~ *Networked mobile robots with
Python or JavaScript on BeagleBone -
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~~Embedded Linux~~ **Linux Training**

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using the Beaglebone Black and

PyBBIO What's the difference?

Arduino vs Raspberry Pi

Programming BeagleBone Blue with

Simulink~~Beaglebone Black LESSON~~

~~1: Understanding Beaglebone Black~~

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Pinout BeagleBone Black Hello World and Python PWM: How to use a beaglebone board NodeJS

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Beaglebone Black Assembly Code Project

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Many makers are using BeagleBoards in their projects that range from 3D printers, to phone-controlled planes, and even an underwater exploring robot. It seems like the BeagleBone Black is capable ...

We Got a Look at the BeagleBone Black Ahead of this Weekend's Maker Faire

If your interest lies with robotics ... with the BeagleBone Black in mind. This build isn't fully DIY, as the mecanum

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wheels appear to be off-the-shelf items, but the rest of the project makes

...

A 3D-Printable Mecanum Wheeled Robot Platform

Small concoctions of servos and laser-cut acrylic, to which boards such as the Arduino, Raspberry Pi, or Beaglebone can ... somewhere that could make a robotic project? Via Hacker News.

Robots Hacks

The BeagleBone is a low-cost version of the original ... He's also a book author, writing DIY project books on electronics and robotics technologies. His latest book, *Make: Basic Arduino Projects*, ...

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seconds

and students will all use open-source software and hardware for one or more design projects this year. Of those surveyed, more than half (56 percent) of professional engineers will use BeagleBone and ...

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Arduino Pro expands its industry-grade ecosystem

Embedded Controllers - Wall

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Following Robot. This project concentrates on using the Motorola HC12 embedded controller to guide a Wall Following Robot through an unknown maze. The robot navigates ...

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

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know how to use a personal computer, you can use this book to construct far more complex systems than you would have thought possible.

Exciting new capabilities to enable even easier DIY robotics with BeagleBone Blue About This Book Build powerful robots with the all new BeagleBone Blue Communicate with your robot and teach it to detect and respond to its environment Control walking, rolling, swimming, and flying robots with your iOS and Android mobile devices Who This Book Is For This book is for anyone who is curious about using new, low-cost hardware to create robotic projects and have previously been the domain of research labs, major universities, or defence departments. Some programming experience would be

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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. What You Will Learn Power on and configure the BeagleBone Blue Get to know Simple programming techniques to enable the unique hardware capabilities of the BeagleBone Blue. Connect standard hardware to enable your projects to see, speak, hear, and move Build advanced capabilities into your projects, such as GPS and sonar sensors Build complex projects that can fly, or go under or on the water In Detail BeagleBone Blue is effectively a small, light, cheap computer in a similar vein to Raspberry Pi and Arduino. It has all of the extensibility of today's desktop machines, but without the bulk, expense, or noise. This

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project guide provides step-by-step instructions that enable anyone to use this new, low-cost platform in some fascinating robotics projects. By the time you are finished, your projects will be able to see, speak, listen, detect their surroundings, and move in a variety of amazing ways. The book begins with unpacking and powering up the components. This includes guidance on what to purchase and how to connect it all successfully, and a primer on programming the BeagleBone Blue. You will add additional software functionality available from the open source community, including making the system see using a webcam, hear using a microphone, and speak using a speaker. You will then learn to use the new hardware capability of the BeagleBone Blue to make your robots

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move, as well as discover how to add sonar sensors to avoid or find objects. Later, you will learn to remotely control your robot through iOS and Android devices. At the end of this book, you will see how to integrate all of these functionalities to work together, before developing the most impressive robotics projects: Drone and Submarine. Style and approach 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 Blue.

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

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and fascinating projects Develop applications with 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 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 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 BeagleBone Black for the first time Get to know the basics of microcomputing and Linux

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using the command line and easy kernel mods 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 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 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 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 prototypes. This Learning Path

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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 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 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 Robotics

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

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

Exciting new capabilities to enable even easier DIY robotics with BeagleBone Blue

About This Book*

Build powerful robots with the all new BeagleBone Blue*

Communicate with your robot and teach it to detect and respond to its environment*

Control walking, rolling, swimming, and flying robots with your iOS and Android mobile devices

Who This Book Is For

This book is for anyone who is curious about using new, low-cost hardware to create robotic projects and have previously been the domain of research labs, major universities, or defence departments. Some

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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.

What You Will Learn*

- Power on and configure the BeagleBone Blue*
- Get to know Simple programming techniques to enable the unique hardware capabilities of the BeagleBone Blue.*
- Connect standard hardware to enable your projects to see, speak, hear, and move*
- Build advanced capabilities into your projects, such as GPS and sonar sensors*
- Build complex projects that can fly, or go under or on the water

Detail BeagleBone Blue is effectively a small, light, cheap computer in a similar vein to Raspberry Pi and Arduino. It has all of the extensibility of today's desktop machines, but without

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the bulk, expense, or noise. This project guide provides step-by-step instructions that enable anyone to use this new, low-cost platform in some fascinating robotics projects. By the time you are finished, your projects will be able to see, speak, listen, detect their surroundings, and move in a variety of amazing ways. The book begins with unpacking and powering up the components. This includes guidance on what to purchase and how to connect it all successfully, and a primer on programming the BeagleBone Blue. You will add additional software functionality available from the open source community, including making the system see using a webcam, hear using a microphone, and speak using a speaker. You will then learn to use the new hardware capability of the

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BeagleBone Blue to make your robots move, as well as discover how to add sonar sensors to avoid or find objects. Later, you will learn to remotely control your robot through iOS and Android devices. At the end of this book, you will see how to integrate all of these functionalities to work together, before developing the most impressive robotics projects: Drone and Submarine. Style and approach 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 Blue.

If you want a simple guide to building

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complex robots, then this book is for you. You'll need some programming knowledge and experience working with mechanical systems.

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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 to your computer and program it, quickly mastering BoneScript and other programming tools so you can get started right away. 30 BeagleBone Black Projects

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for the Evil Genius is filled with a wide 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. Features step-by-step instructions 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 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 turret 7-segment clock Display for sensor information Internet radio Imperial march indicator Intruder alert using

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Twitter API Lie detector Auto dog
barker

This book is for anyone who has been curious about using Arduino to create robotic projects that were previously the domain of research labs of major universities or defense departments. Some programming background is useful, but if you know how to use a PC, you can, with the aid of the step-by-step instructions in this book, construct complex robotic projects that can roll, walk, swim, or fly.

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