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# Arduino Robotic Projects *2014-08-14*

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

# BeagleBone Robotic Projects *2013-12-26*

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

# Raspberry Pi Robotic Projects – Third Edition

## 2016-11-30

work through a mix of amazing projects using the raspberry pi zero raspberry pi 3about this book easy to follow instructions yet the ones that help you build powerful robots and exclusive coverage of mobile robots with the pi zero build robots that can run swim and fly and the cutting edge dimension of robotics that is possible with the raspberry pi zero and pi 3 interact with your projects wirelessly and make sci fi possible right in your homewho this book is forthis book is for hobbyists and programmers who are excited about using the raspberry pi 3 and raspberry pi zero it is for those who are taking their first steps towards using these devices to control hardware and software and write simple programs that enable amazing projects no programming experience is required just a little computer and mechanical aptitude and the desire to build some interesting projects what you will learn control dc motors add a usb webcam for vision attach a projector to project information insert usb control hardware to control a complex robot with two legs include speech recognition so that projects can receive

commands add speech output to that the robot can communicate with the world around it include wireless communication so that you can see what the robot is seeing and control the robot from a distancein detailthis book will allow you to take full advantage of raspberry pi zero and raspberry pi 3 by building both simple and complex robotic projects the book takes a mission critical approach to show you how to build amazing robots and helps you decide which board to use for which type of robot the book puts a special emphasis on designing mobile or movable robots using the raspberry pi zero the projects will show inexpensive yet powerful ways to take full advantage it will teach you how to program raspberry pi control the movement of your robot and add features to your robots

## BeagleBone Robotic Projects *2017-06-13*

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 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 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 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

# Raspberry Pi Robotic Projects

# 2016-10-17

work through a mix of amazing robotic projects using the raspberry pi zero or the raspberry pi 3 about this book easy to follow instructions yet the ones that help you build powerful robots and exclusive coverage of mobile robots with the pi zero build robots that can run swim and fly and the cutting edge dimension of robotics that is possible with the raspberry pi zero and pi 3 interact with your projects wirelessly and make sci fi possible right in your home who this book is for this book is for hobbyists and programmers who are excited about using the raspberry pi 3 and raspberry pi zero it is for those who are taking their first steps towards using these devices to control hardware and software and write simple programs that enable amazing projects no programming experience is required just a little computer and mechanical aptitude and the desire to build some interesting projects what you will learn control a variety of different dc motors add a usb webcam to see what your robot can see attach a projector to project information insert usb control hardware to control a complex robot with two legs include speech recognition so that your projects can receive commands add speech output to

that the robot can communicate with the world around it include wireless communication so that you can see what the robot is seeing and control the robot from a distance in detail this book will allow you to take full advantage of raspberry pi zero and raspberry pi 3 by building both simple and complex robotic projects the book takes a mission critical approach to show you how to build amazing robots and helps you decide which board to use for which type of robot the book puts a special emphasis on designing mobile or movable robots using the raspberry pi zero the projects will show inexpensive yet powerful ways to take full advantage it will teach you how to program raspberry pi control the movement of your robot and add features to your robots style and approach this fun and practical tutorial contain step by step instructions to get you hands on building inexpensive projects it contains mission critical chapters and everything you need to know to get started

## Arduino Robotic Projects *2014-08-14*

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

## Mastering BeagleBone Robotics

## 2014-12-22

if you want a simple guide to building complex robots then this book is for you you ll need some programming knowledge and experience working with mechanical systems

## BeagleBone Robotic Projects – Second Edition 2017-06-13

exciting new capabilities to enable even easier diy robotics with beaglebone blueabout 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 deviceswho this book is forthis 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 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 waterin detailbeaglebone 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 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 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 approachdevelop 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

# Raspberry Pi Robotics Essentials

## 2015-06-19

if you are a programmer with an interest in building advanced robotics projects using inexpensive hardware and open source software then this book is for you some experience with computer

programming and implementing simple mechanical systems is required

# Raspberry Pi Robotic Blueprints

## 2015-10-30

utilize the powerful ingredients of raspberry pi to bring to life your amazing robots that can act draw and have fun with laser tags about this book learn to implement a number of features offered by raspberry pi to build your own amazing robots understand how to add vision and voice to your robots this fast paced practical guide comprises a number of creative projects to take your raspberry pi knowledge to the next level who this book is for this all encompassing guide was created for anyone who is interested in expanding their knowledge in applying the peripherals of raspberry pi if you have a fancy for building complex looking robots with simple inexpensive and readily available hardware then this book is ideal for you prior understanding of raspberry pi with simple mechanical systems is recommended what you will learn add sensors to your robot so that it can sense the world around it know everything there is to know about accessing motors and servos to

provide movement to the robotic platform explore the feature of adding vision to your robot so it can see the world around it refine your robot with the skill of speech recognition so that it can receive commands polish your robot by adding speech output so it can communicate with the world around it maximize the use of servos in raspberry pi to create a drawing robot strengthen your robot by adding wireless communication skills so you can see what the robot is seeing and control it from a distance build an unbelievable autonomous hexcopter controlled by raspberry pi in detail the raspberry pi is a series of credit card sized single board computers developed in the uk by the raspberry pi foundation with the intention of promoting the teaching of basic computer science in schools the raspberry pi is known as a tiny computer built on a single circuit board it runs a linux operating system and has connection ports for various peripherals so that it can be hooked up to sensors motors cameras and more raspberry pi has been hugely popular among hardware hobbyists for various projects including robotics this book gives you an insight into implementing several creative projects using the peripherals provided by raspberry pi to start we ll walk through the basic robotics concepts that the world of raspberry pi offers us implementing wireless

communication to control your robot from a distance next we demonstrate how to build a sensible and a visionary robot maximizing the use of sensors and step controllers after that we focus on building a wheeled robot that can draw and play hockey to finish with a bang we ll build an autonomous hexcopter that is a flying robot controlled by raspberry pi by the end of this book you will be a maestro in applying an array of different technologies to create almost any imaginable robot style and approach this book is an easy to follow project based guide that throws you directly into the action of creating almost any imaginable robot through blueprints it is full of step by step instructions and screenshots to help you build amazing robots in no time at all

## *Raspberry Pi Robotics Projects 2014*

robotics development is accelerating and an amazing array of new hardware and software capabilities are available to anyone with an interest in the area robots will soon be a part of our everyday life and it will soon be as important to know how they work as it is to know how a computer works raspberry pi is a credit card sized fully capable pc that can be used for many of the things that your

desktop pc does such as spreadsheets word processing and games raspberry pi robotic projects provides the capability to interpret your commands and have your robot initiate actions by the time you are through you ll have robots that can speak listen and move in a number of amazing ways this book is a step by step projects guide to unlocking some complex and interesting capabilities of raspberry pi teaching you to use raspberry pi from scratch this book will discuss a wide range of capabilities that can be achieved with it these capabilities include voice recognition human like speech simulation computer vision motor control gps location and wireless control you will then learn how to combine these capabilities to create your own robotics projects p 4 of cover

# Raspberry Pi Robotic Projects *2014*

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 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 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 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 concise examples you will quickly get to grips with the core concepts needed to develop home automation applications with the beaglebone black

# BeagleBone: Creative Projects for Hobbyists

## 2017-07-20

this book is for anyone who has ever been curious about using the intel galileo to create electronics projects some programming background is useful but if you know how to use a personal

computer with the aid of the step by step instructions in this book you can construct complex electronics projects that use the intel galileo

## Intel Galileo Essentials *2015-02-24*

get the most out of raspberry pi to build enthralling robotics projects in detail this book starts with the essentials of turning on the basic hardware it provides the capability to interpret your commands and have your robot initiate actions in this second edition you will learn more specifics on how to use the raspberry pi s gpio pins to communicate with and control a wide range of additional hardware teaching you to use the raspberry pi from scratch this book will discuss a wide range of capabilities that can be achieved with it these capabilities include voice recognition human like speech simulation computer vision motor control gps location and wireless control you will then learn how to combine these capabilities to create your own robotics projects by the end of the book you will be able to employ the raspberry pi to build some intricate and enthralling robotics projects with ease what you will learn unbox power up and configure raspberry pi with ubuntu a

powerful version of linux exercise vision control in your projects to distinguish colors patterns or movements apply and control speech software to enable your projects to speak discover external hardware to enable your robotics projects to move create complex robotics projects that can move swim or even fly interact with your projects wirelessly so that they can be truly autonomous use the gpio to communicate with external sensors downloading the example code for this book you can download the example code files for all packt books you have purchased from your account at packtpub com if you purchased this book elsewhere you can visit packtpub com support and register to have the files e mailed directly to you

# Raspberry Pi Robotics Projects – Second Edition *2015*

explore the powers of raspberry pi and build your very own projects right out of the box about this book from robotics to gaming this learning path will unlock your creativity build your own impressive iot projects to transform your home featuring some of packt s very best raspberry pi content this learning path doesn t just get you to

your destination it opens up a whole horizon of possibilities who this book is for want new ideas for your next raspberry pi project got one lying around gathering dust this learning path gets you straight into the creative dirty work of programming and playing with your pi whether your new to raspberry pi or an experienced maker we think this learning path will inspire you and get your creative juices flowing what you will learn discover an aweome range of raspberry pi projects bridge the gap between software and hardware through your pi and find out how to make an operating system interact with cameras and other hardware find out how to use your raspberry pi for gaming secure your home with this tiny computer make science fiction a reality build a walking robot in detail looking for inspiration for your next raspberry pi project not sure where to begin this learning path is the perfect place to begin providing you with an accessible yet comprehensive journey through raspberry pi following three modules you ll soon be confident and prepared to get creative with your microcomputer raspberry pi by example is the first module in this learning path and it does exactly what it says it doesn t just teach it shows you how to go and build some awesome raspberry pi projects immediately build and play your own games with the pi build a complete

internet of things home automation system that controls your house through twitter let your imagination run wild in the next module we ll look in more depth at building a home security system you ll be using some of the skills you devoped through the first module but apply them to something more intricate and impressive using a linux based operating system as the foundations you ll gradually build up an entire security infrastructure adding cameras remote controls and even intrusion alerts in the final module we ll take you into the world of raspberry pi robotics by the end of it you ll have built a biped robot that can interact with its environment this learning path combines some of the best that packt has to offer in one complete curated package it includes content from the following packt products raspberry pi by example by ashwin pajankar and arush kakkar building a home security system with raspberry pi by matthew pole raspberry pi robotics essentials by richard grimmett style and approach it s not every day you build a home automation system it s not every day you build a walking robot but with this learning path you ll do just that so get started and let this tiny computer expand your imagination

# Raspberry Pi: Amazing Projects from Scratch

## 2016-09-26

get started with the smallest cheapest and highest utility pi ever raspberry pi zero about this book get started with raspberry pi zero and put all of its exciting features to use create fun games and programs with little or no programming experience learn to use this super tiny pc to control hardware and software for work play and everything else who this book is for this book is for hobbyists and programmers who are taking their first steps toward using raspberry pi zero no programming experience is required although some python programming experience might be useful what you will learn understand how to initially download the operating system and set up raspberry pi zero find out how to control the gpio pins of raspberry pi zero to control led circuits get to grips with adding hardware to the gpio to control more complex hardware such as motors add usb control hardware to control a complex robot with 12 servos include speech recognition so that projects can receive commands enable the robot to communicate with the world around it by adding speech output control the robot from a distance and

see what the robot is seeing by adding wireless communication discover how to build a robotic hand and a quadcopter in detail raspberry pi zero is half the size of raspberry pi a only with twice the utility at just three centimeters wide it packs in every utility required for full fledged computing tasks this practical tutorial will help you quickly get up and running with raspberry pi zero to control hardware and software and write simple programs and games you will learn to build creative programs and exciting games with little or no programming experience we cover all the features of raspberry pi zero as you discover how to configure software and hardware and control external devices you will find out how to navigate your way in raspbian write simple python scripts and create simple diy programs style and approach this is a practical and fun getting started tutorial that will guide you through everything new that the raspberry pi has to offer

## Getting Started with Raspberry Pi Zero 2016-03-30

develop an extendable smart robot capable of performing a complex series of actions with python and raspberry pi key features

get up to speed with the fundamentals of robotic programming and build intelligent robots learn how to program a voice agent to control and interact with your robot s behavior enable your robot to see its environment and avoid barriers using sensors book description we live in an age where the most complex or repetitive tasks are automated smart robots have the potential to revolutionize how we perform all kinds of tasks with high accuracy and efficiency with this second edition of learn robotics programming you ll see how a combination of the raspberry pi and python can be a great starting point for robot programming the book starts by introducing you to the basic structure of a robot and shows you how to design build and program it as you make your way through the book you ll add different outputs and sensors learn robot building skills and write code to add autonomous behavior using sensors and a camera you ll also be able to upgrade your robot with wi fi connectivity to control it using a smartphone finally you ll understand how you can apply the skills that you ve learned to visualize lay out build and code your future robot building projects by the end of this book you ll have built an interesting robot that can perform basic artificial intelligence operations and be well versed in programming robots and creating

complex robotics projects using what you ve learned what you will learn leverage the features of the raspberry pi os discover how to configure a raspberry pi to build an ai enabled robot interface motors and sensors with a raspberry pi code your robot to develop engaging and intelligent robot behavior explore ai behavior such as speech recognition and visual processing find out how you can control ai robots with a mobile phone over wi fi understand how to choose the right parts and assemble your robot who this book is for this second edition of learn robotics programming is for programmers developers and robotics enthusiasts who want to develop a fully functional robot and leverage ai to build interactive robots basic knowledge of the python programming language will help you understand the concepts covered in this robot programming book more effectively

## Learn Robotics Programming *2021-02-12*

the raspberry pi b2 is an inexpensive embedded processor that provides a high performance linux development environment this book is a fast paced guide that will show you how to use raspberry pi technology to build a biped robot that can interact with its

environment we start off by explaining the basics of getting your raspberry pi up and running ready to be mounted on your biped platform after this you will be introduced to the art of constructing a mechanism for the biped platform you will then learn to develop a vision system for your robot as well as a means by which you can control and monitor it at the end of this book you will have learned enough to build a complex biped robot that can walk turn find its way and see its environment

# Raspberry Pi Robotics Essentials

## 2015-06-19

this collection of essays consists of selected papers presented at the 24th ieee fruct conference it highlights the most pressing research topics in infocommunication technologies such as challenges in the development of next generation networks the architectures and design of innovative knowledge based systems and innovations in healthcare and ehealth

# BeagleBone: Creative Projects for Hobbyists

## *2017*

beaglebone black is a low cost open hardware computer uniquely suited to interact with sensors and actuators directly and over the 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 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

## *Emerging Topics and Questions in Infocommunication Technologies*

## *2020-06-16*

this book gathers the proceedings of the 2nd latin american congress on automation and robotics held at pontificia universidad

javeriana de cali colombia on october 30th november 1st 2019 it presents papers from researchers scientists and engineers from academia and industry and explores current exciting research applications and future challenges mainly in latin american countries the book covers a wide range of research fields associated with automation and robotics encountered in engineering scientific research and practice including autonomous systems multi robot and multi agent systems industrial automation and robotics process control modeling and optimization control theory artificial intelligence kinematic and dynamic analysis of robotic systems computer vision self localization mapping and navigation instruments sensing and sensor fusion evolutionary bio inspired micro nano and soft robotics novel robot designs haptics human robot interaction and interfaces simulation procedures experimental validations and educational robotics

## Bad to the Bone *2022-06-01*

the aim of the book is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas

of computing intelligent systems and internet computing as the has become a major source of information techniques and methodologies that extract quality information are of paramount importance for many and internet applications data mining and knowledge discovery play key roles in many of today s prominent applications such as e commerce and computer security moreover the outcome of services delivers a new platform for enabling service oriented systems the emergence of large scale distributed computing paradigms such as cloud computing and mobile computing systems has opened many opportunities for collaboration services which are at the core of any information system artificial intelligence ai is an area of computer science that build intelligent systems and algorithms that work and react like humans the ai techniques and computational intelligence are powerful tools for learning adaptation reasoning and planning they have the potential to become enabling technologies for the future intelligent networks recent research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences are very important for the future development and innovation of and internet applications

## Advances in Automation and Robotics Research *2020-01-29*

this book comprises select proceedings of the 12th conference on field and service robotics fsr 2019 focusing on cutting edge research carried out in different applications of robotics including agriculture search and rescue aerial marine industrial and space it focuses on experiments and demonstrations of robotics applied to complex and dynamic environments and covers diverse applications the essays are written by leading international experts making it a valuable resource for researchers and practicing engineers alike

## *Web, Artificial Intelligence and Network Applications 2019-03-14*

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# Field and Service Robotics *2021-01-12*

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