

Javascript Robotics Building Nodebots With Johnny Five Raspberry Pi

Arduino And Beaglebone Make

The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone BlackJavaScript
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build and program projects that tap into the internet of things iot using arduino raspberry pi and beaglebone black this innovative guide gets you 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 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 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 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 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 weather station arduino garage door controller arduino irrigation controller arduino outdoor lighting controller beaglebone message panel beaglebone remote control sdr machine to machine demonstration project

javascript robotics is on the rise rick waldron the lead author of this book and creator of the johnny five platform is at the forefront of this movement johnny five is an open source javascript arduino programming framework for robotics this book brings together fifteen innovative programmers each creating a unique johnny five robot step by step and offering tips and tricks along the way experience with javascript is a prerequisite

a practical wrox guide to arm programming for mobile devices with more than 90 percent of mobile phones sold in recent years using arm based processors developers are eager to master this embedded technology if you know the basics of c programming this guide will ease you into the world of embedded arm technology with clear explanations of the systems common to all arm processors and step by step instructions for creating an embedded application it prepares you for this popular specialty while arm technology is not new existing books on the topic predate the current explosive growth of mobile devices using arm and don t cover these all important aspects newcomers to embedded technology will find this guide approachable and easy to understand covers the tools required assembly and debugging techniques c optimizations and more lists the tools needed for various types of projects and explores the details of the assembly language examines the optimizations that can be made to ensure fast code provides step by step instructions for a basic application and shows how to build upon it professional embedded arm development prepares you to enter this exciting and in demand programming field

beaglebone black is a low cost community supported development platform for developers and hobbyists this book helps you to get started with beaglebone black development using python and node js with debian linux platform several demo samples are be provided to accelerate your learning the following is highlight topics in this book preparing development environment basic configuration serial debugging beaglebone black programming language beaglebone black i o programming gpio analog i o pwm uart spi i2c twi arduino development working with xbee ieee 802 15 4 opencv development

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 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 controlled rover plant hydration system sentinel turret 7 segment clock display for sensor information internet radio imperial march indicator intruder alert using twitter api lie detector auto dog barker

javascript 14 clo tech typebot piduino5

matt scarpino has provided a great tool for the hobbyist starting out in the circuit board design world demonstrating all the features you ll need to create your own circuit board projects however the experienced engineer will also benefit from the book as it serves as a complete reference guide to all eagle software configuration settings and features his insightful guidance helps simplify difficult tasks and his handy tips will help save you hours of trial and error experimentation rich blum author sams teach yourself arduino programming in 24 hours and sams teach yourself python programming for raspberry pi in 24 hours powerful flexible and inexpensive eagle is the ideal pcb design solution for every maker diyer startup hobbyist or student today all open source arduino designs are released in eagle format if you want to design cost effective new pcbs this is the tool to learn matthew scarpino helps you take full advantage of eagle s remarkable capabilities you won t find any differential equations here only basic circuit theory and hands on techniques for designing effective pcbs and getting innovative new gadgets to market scarpino starts with an accessible introduction to the fundamentals of pcb design next he walks through the design of basic intermediate and complex circuit boards starting with a simple inverting amplifier and culminating in a six layer single board computer with hundreds of components and thousands of routed connections as the circuits grow more complex you ll master advanced eagle features and discover how to automate crucial design related tasks whatever your previous experience scarpino s start to finish examples and practical insight can help you create designs of stunning power and efficiency understand single sided double sided and multilayer boards design practical circuits with the schematic editor transform schematics into physical board designs convert board designs into gerber output files for fabrication expand eagle s capabilities with new libraries and components exchange designs with ltspice and simulate their responses to input automate simple repetitive operations with editor commands streamline circuit design and library generation with user language programs ulps design for the advanced beaglebone black with high speed bga devices and a 32 bit system on a chip soc use buses to draw complex connections between components configure stackups create route bga components and route high speed signals eagle book com provides an archive containing the design files for the book s circuits it also includes eagle libraries scripts and user language programs ulps

supercharge your minecraft redstone skills enhance your minecraft world by creating innovative devices and elements with redstone minecraft mastery build your own redstone contraptions and mods reveals how to maximize the capabilities of this powerful versatile red ore learn how to create logic gates advanced mechanisms and much more you ll also find out how to host a minecraft server use the qcraft and computer craft mods and develop your own custom mods exponentially expand the dimensions of your world with help from this hands on guide the only limit is your imagination use basic redstone items like levers buttons and lamps and make an

automated door create redstone logic gates clocks and t flip flops build advanced contraptions block swappers concealed doors a functional seven segment display and more use miscellaneous redstone items such as rails minecarts liquids hoppers and command blocks host a minecraft server to open your world up to other players edit minecraft worlds offline using mcedit interact with minecraft using python on a raspberry pi create quantum physics based contraptions and special effects with qcraft build computercraft blocks and turtles and program them in lua set up a minecraft modding development environment using forge and eclipse make your own block based mods and item mods all code and example worlds from the book are available for download

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

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over 60 recipes and solutions for inventors makers and budding engineers to create projects using the beaglebone black about this book learn how to develop applications with the beaglebone black and open source linux software sharpen your expertise in making sophisticated electronic devices explore the beaglebone black with this easy to succeed recipe format who this book is for if you are a hardware linux and or microcomputing novice or someone who wants more power and possibilities with product prototypes electronic art projects or embedded computing experiments then this book is for you it is for internet of things enthusiasts who want to use more sophisticated hardware than the raspberry pi or the arduino can provide whether you are an engineering student a diyer an inventor or a budding electronics enthusiast this book delivers accessible easy to succeed instructions for using an advanced microcomputing platform what you will learn set up and run the beaglebone black for the first time learn the basics of microcomputing and linux using the command line and easy kernel mods make introductory projects with python javascript bonescript and node js explore physical computing and simple circuits using buttons leds sensors and motors discover the unique features of the beaglebone black and its real time computing functions build intermediate level audio and video applications assemble and add ingredients for creating internet of things prototypes in detail there are many single board controllers and computers such as arduino udo or raspberry pi which can be used to create electronic prototypes on circuit boards however when it comes to creating more advanced projects beaglebone black provides a sophisticated alternative mastering the beaglebone black enables you to combine it with sensors and leds add buttons and marry it to a variety of add on boards you can transform this tiny device into the brain for an embedded application or an endless variety of electronic inventions and prototypes with dozens of how tos this book kicks off with the basic steps for setting up and running the beaglebone black for the first time from connecting the necessary hardware and using the command line with linux commands to installing new software and controlling your system remotely

following these recipes more advanced examples take you through scripting debugging and working with software source files eventually working with the linux kernel subsequently you will learn how to exploit the board s real time functions we will then discover exciting methods for using sound and video with the system before marching forward into an exploration of recipes for building internet of things projects finally the book finishes with a dramatic arc upward into outer space when you explore ways to build projects for tracking and monitoring satellites style and approachthis comprehensive recipe book deconstructs a complex often confusing piece of technology and transforms it to become accessible and fun with snappy unintimidating prose and extensive easy to succeed instructions

in this tab book bestselling electronics author simon monk shows maker entrepreneurs how to use fritzing s open source software and services to create electronics prototypes design and manufacture printed circuit boards pcbs and bring professional quality electronic products to market fritzing for inventors take your electronics project from prototype to product explains how to use this set of free open source electronics prototyping tools to lay out breadboards create schematics and design professional quality printed circuit boards pcbs no engineering skills needed whether you re a hobbyist artist inventor or student you ll be able to develop a product from schematic to prototype to professional quality printed circuit board all from one easy to use software package fritzing works well with prototyping boards such as arduino raspberry pi and beaglebone this diy guide covers the whole lifecycle of product development for a hobbyist entrepreneur it takes you from initial concept to prototyping to pcb production to distribution along the way it examines the sourcing of components product testing and even how to price products for wholesale and retail simon monk is a bestselling tab electronics author and popular presenter at makerfaire s well illustrated tutorial with screen captures easy to follow instructions and step by step projects describes an up to date contemporary approach to pcb design including surface mount designs explains how to become a maker entrepreneur by using crowdfunding and indie marketplaces for technical products

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este livro visa introduzir e explorar o conceito de processos de decisão markovianos parcialmente observáveis pomdp aplicados a um cenário prático usando python em particular o foco está na simulação de um robô que opera em duas salas com diferentes condições de limpeza e toma decisões com base em informações parciais sobre o ambiente os pomdps são uma extensão dos processos de

decisão markovianos mdps que permitem modelar situações onde o robô ou agente não tem acesso completo ao estado atual do sistema mas sim a observações que fornecem informações parciais isso é fundamental em cenários onde a percepção do ambiente é limitada ou ruidosa o livro cobre a definição dos estados possíveis limpo sujo a sujo b as ações possíveis esquerda direita aspirar e as matrizes de transição de estados ocultos que determinam a probabilidade de mudança de estado em cada sala além disso apresenta funções para observar o ambiente e simular a trajetória do robô ilustrando como a teoria dos pomdps é aplicada para resolver problemas de decisão em condições de incerteza

a proposta deste livro é desenvolver um programa de acordo com o título da obra usando o visual c como ferramenta de programação

a proposta desta literatura é implementar e explorar a comunicação via telnet utilizando a programação em python o python como ferramenta de programação será utilizado para demonstrar a aplicação prática dessa tecnologia de comunicação em rede fornecendo exemplos que ilustram como telnet pode ser utilizado para estabelecer conexões interativas entre clientes e servidores permitindo a troca de comandos e dados de forma eficiente diversos tópicos serão abordados apresentando a programação em python de maneira prática e acessível a literatura fornecerá a implementação da comunicação telnet demonstrando a interação com um servidor de rede e a execução remota de comandos

neste livro você encontrará uma parte da série dedicada ao desenvolvimento de projetos com react native ao longo desta obra diversos experimentos serão apresentados conforme o sumário permitindo um aperfeiçoamento contínuo no uso deste framework para a construção de interfaces responsivas com foco em dispositivos móveis

esta literatura é uma continuação da obra programação em blocos no micro bit volume i 2020 do mesmo autor e editora onde outros exemplos serão explorados de modo que o leitor possa ampliar seu embasamento teórico e prático para desenvolver mais aplicações nesta ferramenta É importante que o leitor tenha ciência dos assuntos abordados nestas obras citadas para que haja um melhor aproveitamento do conteúdo a ser apresentado nesta obra o tema tratado é o listado no sumário da obra a placa didática utilizada é a micro bit onde os recursos para testar os circuitos propostos serão conectados através do barramento do kit

a proposta é apresentar a comunicação com poe em modbus tcp ip com base no módulo em100 pic18f2520 e xc8

este livro mostra os passos para a medição do sensor de co2 e acionamento de um jato ventilador caso a medição do ambiente esteja acima de 200 ppm sendo a programação baseada no mikroc É fundamental que o leitor utilize como referência ou possua experiência dos assuntos abordados na literatura programação em c para o pic16f628a com base no mikroc 2011 do mesmo autor e editora

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