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SparkFun pcDuino QuickStart GuideSparkFun 12-26-14 Product Showcase: Happy Holidays! Raspberry Gpio Sparkfun Electronics
Driving the Raspberry Pi's I/O lines requires a bit of programming. Programming in what language? Take your pick! A quick glance at the Raspberry Pi GPIO examples shows that there are dozens of programming-language-choices. We've pared that list down, and ended up with two really solid, easy tools for driving I/O: Python and C (using the WiringPi library).

Raspberry gPIo - learn.sparkfun.com
SparkFun GPS-RTK Dead Reckoning pHAT for Raspberry Pi. In stock. GPS-16475. The SparkFun ZED-F9R GPS-RTK pHAT is a high precision, Automotive Dead Reckoning board with equally impressive configuration …. $249.95. Favorited Favorite 2.

Wish List. -.

GPIO | Products - SparkFun Electronics

The Raspberry Pi is a very popular single-board computer, especially for those interested in programming with Scratch or Python. SparkFun carries over 50 Raspberry Pi boards, HATs, kits and accessories. With great documentation and a huge community, consider Raspberry Pi for your next project!

Raspberry Pi - SparkFun Electronics

The Qwiic pHAT Extension for the RPi400 provides you with an easy way to access all GPIO, stack your favorite HAT upright or connect a Qwiic-enabled board. SparkFun Qwiic pHAT Extension for Raspberry Pi 400 - DEV-17512 - SparkFun Electronics

SparkFun Qwiic pHAT Extension for Raspberry Pi 400 - DEV ...

The SparkFun Qwiic pHAT extension for the Raspbery Pi 400 is the quick and easy solution to access the GPIO, stack your favorite pHAT right-side up, or connect a Qwiic-enabled device to the I 2 C bus (GND, 3.3V, SDA, and SCL).

Qwiic pHAT Extension for Raspberry Pi ... - learn.sparkfun.com

The Sparkfun Qwiic GPIO is an I²C device based around the TCA9534 I/O Expander IC from Texas Instruments. The board adds an additional eight IO pins, which you can read and write just like any other digital pin on your controller.

GPIO Me Oh My - News - SparkFun Electronics

The Raspberry Pi is a very popular single-board computer, especially for those interested in programming with Scratch or Python. SparkFun carries over 50 Raspberry Pi boards, HATs, kits and accessories. With great documentation and a huge community, consider Raspberry Pi for your next project!

Raspberry Pi - SparkFun Electronics

SparkFun Noobs Card for Raspberry Pi (16GB) In stock. COM-15052. This is a class 10, 16GB, micro SDHC card that has been pre-installed with the NOOBS operating system for the Raspberry Pi.

Raspberry Pi - SparkFun Electronics

Raspberry gPIo October 29, 2015. How to use either Python or C++ to drive the I/O lines on a Raspberry Pi. Favorited Favorite 14. Raspberry Pi SPI and I2C Tutorial October 29, 2015. Learn how to use serial I2C and SPI buses on your Raspberry Pi using the wiringPi I/O library for C/C++ and spidev/smbus for Python. ... SparkFun Electronics ...

Python - SparkFun Electronics

Raspberry Pi - GPIO Shrouded Header (2x13) PRT-11490 . $0.95 $0.25. Favorited Favorite 4. Wish List! Raspberry Pi Compute Module 3+ - 32GB DEV-17276 . $40.00. Favorited Favorite 0. Wish List! Strato Pi Mini Board ... SparkFun Electronics ...

Raspberry Pi - page 3 - SparkFun Electronics

You can also copy the code and paste it in a text editor. Just make sure to name this file as safe_shutdown_Pi.py and remember the location that the file was saved.. language:python # safe_shutdown_Pi.py # # ----- # Raspberry Pi Safe Shutdown Python Script # ----- # WRITTEN BY: Ho Yun "Bobby" Chan # @ SparkFun Electronics # DATE: 3/31/2020 # # Based on code from the following blog and ...

Raspberry Pi Safe Reboot and Shutdown ... - learn.sparkfun.com

The SparkFun Qwiic GPIO is an I 2 C device aimed at simplifying adding extra GPIO pins to a microcontroller. The board uses the TCA9534U I/O Expander IC from Texas Instruments to add up to 8 digital inputs and outputs controlled via an I 2 C interface.

SparkFun Qwiic GPIO Hookup Guide - learn.sparkfun.com

SparkFun Forum; Comments Here on GitHub; IRC Channel; Pi Wedge - Breakout For Raspberry Pi GPIO Connector. This is the Pi Wedge, a small board that connects to the Raspberry Pi's 26-pin GPIO connector, and breaks the pins out to breadboard-friendly arrangement and spacing, and even adds a couple of decoupling capacitors on the power supply lines.

GitHub - sparkfun/Pi_Wedge: Breakout for Raspberry Pi ...

The SparkFun Qwiic SHIM for Raspberry Pi is a small, easily removable breakout to add a Qwiic connector to your Raspberry Pi. The SHIM (short for Shove Hardware in the Middle) design allows you to plug directly to the Pi's I 2 C bus with no soldering required and the thin PCB design allows for it to be sandwiched on your Pi GPIO with other HATS.

Qwiic SHIM for Raspberry Pi Hookup Guide - DigiKey Electronics

The SparkFun Qwiic SHIM for Raspberry Pi is a small, easily removable breakout that easily adds a Qwiic connector to your Raspberry Pi. The SHIM design allows you to plug directly to the Pi's I2C bus with no soldering required and the thin PCB design allows for it to be sandwiched on your Pi GPIO with other HATs!

SparkFun Electronics Qwiic SHIM for Raspberry Pi - Micro ...

raspberry pi are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for raspberry pi. Skip to Main Content (800) 346-6873. ... SparkFun Accessories Raspberry Pi GPIO Shrouded Header - 2x20 Enlarge Mfr. Part # PRT-13054. Mouser Part # 474-PRT-13054 ...

Search results for: raspberry pi - Mouser Electronics
The GPIO Block is a simple breakout board to bring the GPIO from the Intel® Edison to the user. provides access to all basic GPIO, PWM, and UART2 pins.

SparkFun Block for Intel® Edison - GPIO
The SparkFun Servo pHAT for Raspberry Pi allows your Raspberry Pi to control up to 16 servo motors in a straightforward and uncompli På lager 1-2 dages leveringstid. 108,00 DKK

Raspberry Pi - Let-elektronik
SparkFun Block for Intel® Edison - GPIO The Intel® Edison is an ultra-small computing platform that will change the way you look at embedded electronics. Each Edison is packed with a huge amount of tech goodies into a tiny package while still providing the same robust strength of your go-to single board computer.

SparkFun Block for Intel® Edison - GPIO @ IoT Store Australia
SparkFun Block for Intel® Edison - GPIO The Intel® Edison is an ultra small computing platform that will change the way you look at embedded electronics. Each Edison is packed with a huge amount of tech goodies into a tiny package while still providing the same robust strength of your go-to single board computer.

With more than 60 practical and creative hacks, this book helps you turn Raspberry Pi into the centerpiece of some cool electronics projects. Want to create a controller for a camera or a robot? Set up Linux distributions for media centers or PBX phone systems? That's just the beginning of what you'll find inside Raspberry Pi Hacks. If you're looking to build either a software or hardware project with more computing power than Arduino alone can provide, Raspberry Pi is just the ticket. And the hacks in this book will give you lots of great ideas. Use configuration hacks to get more out of your Pi Build your own web server or remote print server Take the Pi outdoors to monitor your garden or control holiday lights Connect with SETI or construct an awesome Halloween costume Hack the Pi's Linux OS to support more complex projects Decode audio/video formats or make your own music player Achieve a low-weight payload for aerial photography Build a Pi computer cluster or a solar-powered lab

The Raspberry Pi is a credit card-sized computer that plugs into your TV and a keyboard. It is a capable little computer which can be used in electronics projects, and for many of the things that your desktop PC does, like spreadsheets, word processing, browsing the internet, and playing games. It also plays high-definition video. This book takes you step-by-step

through many fun and educational possibilities. Take advantage of several preloaded programming languages. Use the Raspberry Pi with Arduino. Create Internet-connected projects. Play with multimedia. With Raspberry Pi, you can do all of this and more.

Learn the art of building enticing projects by unleashing the potential of Raspberry Pi 3 using Java About This Book Explore the small yet powerful mini computer in order to run java applications Leverage Java libraries to build exciting projects on home automation, IoT, and Robotics by leveraging Java libraries Get acquainted with connecting electronic sensors to your Raspberry Pi 3 using Java APIs. Who This Book Is For The book is aimed at Java programmers who are eager to get their hands-on Raspberry Pi and build interesting projects using java. They have a very basic knowledge of Raspberry Pi. What You Will Learn Use presence detection using the integrated bluetooth chip Automatic light switch using presence detection Use a centralized IoT service to publish data using RPC Control a robot by driving motors using PWM Create a small web service capable of performing actions on the Raspberry Pi and supply readings Image capture using Java together with the OpenCV framework In Detail Raspberry Pi is a small, low cost and yet very powerful development platform. It is used to interact with attached electronics by the use of it's GPIO pins for multiple use cases, mainly Home Automation and Robotics. Our book is a project-based guide that will show you how to utilize the Raspberry Pi's GPIO with Java and how you can leverage this utilization with your knowledge of Java. You will start with installing and setting up the necessary hardware to create a seamless development platform. You will then straightaway start by building a project that will utilize light for presence detection. Next, you will program the application, capable of handling real time data using MQTT and utilize RPC to publish data to adafruit.io. Further, you will build a wireless robot on top of the zuma chassis with the Raspberry Pi as the main controller. Lastly, you will end the book with advanced projects that will help you to create a multi-purpose IoT controller along with building a security camera that will perform image capture and recognize faces with the help of notifications. By the end of the book, you will be able to build your own real world usable projects not limited to Home Automation, IoT and/or Robotics utilizing logic, user and web interfaces. Style and approach The book will contain projects that ensure a java programmer gets started with building interesting projects using the small yet powerful Raspberry Pi 3. We will start with brushing up your Raspberry Pi skills followed by building 5-6 projects

Design custom printed circuit boards with EAGLE Learn how to make double-sided professional-quality PCBs from the ground up using EAGLE--the powerful, flexible design software. In this step-by-step guide, electronics guru Simon Monk leads you through the process of designing a schematic, transforming it into a PCB layout, and submitting standard Gerber files to a manufacturing service to create your finished board. Filled with detailed illustrations, photos, and screenshots, Make Your Own PCBs with EAGLE features downloadable example projects so you can get started right away. Install EAGLE Light Edition and discover the views and screens that make up an EAGLE project Create the schematic and board files for a simple LED project Find the right components and libraries for your projects Work with the Schematic Editor Lay out PCBs with through-hole components and with surface mount technology Build a sound level meter with a small amplifier and ten

LEDs Generate Gerber design files to submit for fabrication Solder through-hole PCBs and SMD boards Design a plug-in Arduino shield Build a Raspberry Pi expansion board Automate repetitive tasks using scripts and User Language Programs Create your own libraries and parts and modify existing components

You've bested creepers, traveled deep into caves, and maybe even gone to The End and back—but have you ever transformed a sword into a magic wand? Built a palace in the blink of an eye? Designed your own color-changing disco dance floor? In Learn to Program with Minecraft®, you'll do all this and more with the power of Python, a free language used by millions of professional and first-time programmers! Begin with some short, simple Python lessons and then use your new skills to modify Minecraft to produce instant and totally awesome results. Learn how to customize Minecraft to make mini-games, duplicate entire buildings, and turn boring blocks into gold. You'll also write programs that: –Take you on an automated teleportation tour around your Minecraft world –Build massive monuments, pyramids, forests, and more in a snap! –Make secret passageways that open when you activate a hidden switch –Create a spooky ghost town that vanishes and reappears elsewhere –Show exactly where to dig for rare blocks –Cast a spell so that a cascade of flowers (or dynamite if you're daring!) follows your every move –Make mischief with dastardly lava traps and watery curses that cause huge floods Whether you're a Minecraft megafan or a newbie, you'll see Minecraft in a whole new light while learning the basics of programming. Sure, you could spend all day mining for precious resources or building your mansion by hand, but with the power of Python, those days are over! Requires: Windows 7 or later; OS X 10.10 or later; or a Raspberry Pi. Uses Python 3

A recipe-based guide to programming your Raspberry Pi 3 using Python Key Features Leverage the power of Raspberry Pi 3 using Python programming Create 3D games, build neural network modules, and interface with your own circuits Packed with clear, step-by-step recipes to walk you through the capabilities of Raspberry Pi Book Description Raspberry Pi 3 Cookbook for Python Programmers – Third Edition begins by guiding you through setting up Raspberry Pi 3, performing tasks using Python 3.6, and introducing the first steps to interface with electronics. As you work through each chapter, you will build your skills and apply them as you progress. You will learn how to build text classifiers, predict sentiments in words, develop applications using the popular Tkinter library, and create games by controlling graphics on your screen. You will harness the power of a built in graphics processor using Pi3D to generate your own high-quality 3D graphics and environments. You will understand how to connect Raspberry Pi's hardware pins directly to control electronics, from switching on LEDs and responding to push buttons to driving motors and servos. Get to grips with monitoring sensors to gather real-life data, using it to control other devices, and viewing the results over the internet. You will apply what you have learned by creating your own Pi-Rover or Pi-Hexipod robots. You will also learn about sentiment analysis, face recognition techniques, and building neural network modules for optical character recognition. Finally, you will learn to build movie recommendations system on Raspberry Pi 3. What you will learn Learn to set up and run Raspberry Pi 3 Build text classifiers and perform automation using Python Predict sentiments in words and create games and graphics Detect edges and contours in images Build human face detection and recognition system Use Python to drive hardware Sense and display

real-world data Build a neural network module for optical character recognition Build movie recommendations system Who this book is for This book is for anyone who wants to master the skills of Python programming using Raspberry Pi 3. Prior knowledge of Python will be an added advantage.

Create your own LoRa wireless projects for non-industrial use and gain a strong basic understanding of the LoRa technology, LoRa WAN, and LPWAN. You'll start by building your first LoRa wireless channel and then move on to various interesting projects such as setting up networks with a LoRa gateway, communicating with IoT servers using RESTful API and MQTT protocol, and real-time GPS tracking. With LoRa wireless and LoRaWAN, you can build a wide array of applications in the area of smart agriculture, smart cities, smart environment, smart healthcare, smart homes and buildings, smart industrial control, smart metering, smart supply chain and logistics. Beginning LoRa Radio Networks with Arduino provides a practical introduction and uses affordable and easy to obtain hardware to build projects with the Arduino development environment. What You'll Learn Understand the hardware need to build LoRaWAN Use the Arduino development environment to write code Connect to Arduino hardware and upload programs and communicate with them Setup networks with LoRa gateway Show real time track with tail, and path history Who This Book Is For Inventors, hackers, crafters, students, hobbyists, and scientists

Build sensor networks with Python and MicroPython using XBee radio modules, Raspberry Pi, and Arduino boards. This revised and updated edition will put all of these together to form a sensor network, and show you how to turn your Raspberry Pi into a MySQL database server to store your sensor data! You'll review the different types of sensors and sensor networks, along with new technology, including how to build a simple XBee network. You'll then walk through building an sensor nodes on the XBee, Raspberry Pi, and Arduino, and also learn how to collect data from multiple sensor nodes. The book also explores different ways to store sensor data, including writing to an SD card, sending data to the cloud, and setting up a Raspberry Pi MySQL server to host your data. You'll even learn how to connect to and interact with a MySQL database server directly from an Arduino! Finally you'll see how to put it all together by connecting your sensor nodes to your new Raspberry Pi database server. If you want to see how well XBee, Raspberry Pi, and Arduino can get along, especially to create a sensor network, then Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino is just the book you need. What You'll Learn Code your sensor nodes with Python and MicroPython Work with new XBee 3 modules Host your data on Raspberry Pi Get started with MySQL Create sophisticated sensor networks Who This Book Is For Those interested in building or experimenting with sensor networks and IoT solutions, including those with little or no programming experience. A secondary target includes readers interested in using XBee modules with Raspberry Pi and Arduino, those interested in controlling XBee modules with MicroPython.

Make the most out of the world's first truly compact computer It's the size of a credit card, it can be charged like a smartphone, it runs on open-source Linux, and it holds the promise of bringing programming and playing to millions at low

cost. And now you can learn how to use this amazing computer from its co-creator, Eben Upton, in Raspberry Pi User Guide. Cowritten with Gareth Halfacree, this guide gets you up and running on Raspberry Pi, whether you're an educator, hacker, hobbyist, or kid. Learn how to connect your Pi to other hardware, install software, write basic programs, and set it up to run robots, multimedia centers, and more. Gets you up and running on Raspberry Pi, a high-tech computer the size of a credit card Helps educators teach students how to program Covers connecting Raspberry Pi to other hardware, such as monitors and keyboards, how to install software, and how to configure Raspberry Pi Shows you how to set up Raspberry Pi as a simple productivity computer, write basic programs in Python, connect to servos and sensors, and drive a robot or multimedia center Adults, kids, and devoted hardware hackers, now that you've got a Raspberry Pi, get the very most out of it with Raspberry Pi User Guide.

Raspberry Pi Cookbook for Python Programmers is written in a Cookbook format, presenting examples in the style of recipes.This allows you to go directly to your topic of interest, or follow topics throughout a chapter to gain a thorough in-depth knowledge. The aim of this book is to bring you a broad range of Python 3 examples and practical ideas which you can develop to suit your own requirements. By modifying and combining the examples to create your own projects you learn far more effectively with a much greater understanding. Each chapter is designed to become a foundation for further experimentation and discovery of the topic, providing you with the tools and information to jump right in. Readers are expected to be familiar with programming concepts and Python (where possible Python 3 is used), although beginners should manage with the help of a good Python reference book and background reading. No prior knowledge of the Raspberry Pi or electronics is required; however for the hardware sections you will need some basic electronic components/household tools to build some of the projects.

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