

Make: Sensors



A Hands-On Primer for Monitoring the Real World with Arduino and Raspberry Pi

Tero Karvinen, Kimmo Karvinen, and Ville Valtokari

Make Sensors A Hands On Primer For Monitoring The Real World With Arduino And Raspberry Pi

Danny Staple



Make Sensors A Hands On Primer For Monitoring The Real World With Arduino And Raspberry Pi:

Make: Sensors Tero Karvinen, Kimmo Karvinen, Ville Valtokari, 2014-05-06 Make Sensors is the definitive introduction and guide to the sometimes tricky world of using sensors to monitor the physical world With dozens of projects and experiments for you to build this book shows you how to build sensor projects with both Arduino and Raspberry Pi Use Arduino when you need a low power low complexity brain for your sensor and choose Raspberry Pi when you need to perform additional processing using the Linux operating system running on that device You ll learn about touch sensors light sensors accelerometers gyroscopes magnetic sensors as well as temperature humidity and gas sensors **Learn Robotics Programming** Danny Staple, 2021-02-12 Design build and program AI driven robots from scratch using Python and Raspberry Pi while mastering real world robotics concepts sensor integration and camera based vision systems Key Features Learn hands on robotics by wiring coding and troubleshooting real hardware Integrate sensors cameras and voice agents to make your robot intelligent Follow a structured path from Python basics to browser based robot control 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 book is intended for robotics enthusiasts hobbyists and aspiring programmers with a basic understanding of Python who are interested in building intelligent AI enabled robots using Raspberry Pi It is ideal for learners who prefer a practical hands on approach **Raspberry Pi** Thorin Klosowski, 2015-06-02 The Raspberry Pi is an inexpensive simple computer that s about the size of a credit card It has multiple inputs and outputs that make it the foundation for almost a limitless number of projects from creating a wi fi hot spot to an elaborate programmed LED light show Idiot s Guides Raspberry Pi is the perfect beginner book for learning how it works how to program it using Scratch a basic program for programming Linux how to connect it to

an existing device and how to put together some basic first projects Sensors for Mechatronics Paul P.L. Regtien, Edwin Dertien, 2018-04-18 Sensors for Mechatronics Second Edition offers an overview of the sensors and sensor systems required and applied in mechatronics Emphasis lies on the physical background of the operating principles that is illustrated with examples of commercially available sensors and recent developments Chapters discuss the general aspects of sensors with a special section on quantities notations and relations In addition the book includes a section devoted to sensor errors and error minimization that apply to most of the sensors discussed Each subsequent chapter deals with one class of sensors pursuing a classification according to physical principles rather than measurands Categories discussed include resistive capacitive inductive and magnetic optical piezoelectric and acoustic sensors For each category of sensors a number of applications is given Where appropriate a section is added on the interfacing of the sensor Presents a fully revised updated edition that focuses on industrial applications Provides comprehensive coverage of a wide variety of sensor concepts and basic measurement configurations Written by a recognized expert in the field with extensive experience in industry and teaching Suitable for practicing engineers and those wanting to learn more about sensors in mechatronics **The Internet of Things** Samuel Greengard, 2015-03-20 A guided tour through the Internet of Things a networked world of connected devices objects and people that is changing the way we live and work We turn on the lights in our house from a desk in an office miles away Our refrigerator alerts us to buy milk on the way home A package of cookies on the supermarket shelf suggests that we buy it based on past purchases The cookies themselves are on the shelf because of a smart supply chain When we get home the thermostat has already adjusted the temperature so that it s toasty or bracing whichever we prefer This is the Internet of Things a networked world of connected devices objects and people In this book Samuel Greengard offers a guided tour through this emerging world and how it will change the way we live and work Greengard explains that the Internet of Things IoT is still in its early stages Smart phones cloud computing RFID radio frequency identification technology sensors and miniaturization are converging to make possible a new generation of embedded and immersive technology Greengard traces the origins of the IoT from the early days of personal computers and the Internet and examines how it creates the conceptual and practical framework for a connected world He explores the industrial Internet and machine to machine communication the basis for smart manufacturing and end to end supply chain visibility the growing array of smart consumer devices and services from Fitbit fitness wristbands to mobile apps for banking the practical and technical challenges of building the IoT and the risks of a connected world including a widening digital divide and threats to privacy and security Finally he considers the long term impact of the IoT on society narrating an eye opening Day in the Life of IoT connections circa 2025 **Powering Up a Career in Robotics** Peter K. Ryan, 2015-07-15 This intriguing book will pique the interest of all young people regardless of whether they are technically inclined The reason is that robots are all around us and will only gain in popularity This title educates readers on the various careers in the robotics industry from building

robots to the back end work There s a place for everyone from the mathematically inclined to the artistically gifted With STEM being a major focus of today s educators this book will surely be a hit with students and librarians alike

Advancing Skill Development for Business Managers in Industry 4.0: Emerging Research and Opportunities

Fazzin, Sara,2020-01-03 As technology grows more effective and refined businesses and organizations are increasingly taking advantage by automating processes that were once presided over by human workers As businesses explore the benefits of machine learning research is necessary to examine the effects of the integration of technology to human workplaces Advancing Skill Development for Business Managers in Industry 4 0 Emerging Research and Opportunities is an essential publication that examines Industry 4 0 and the important technological applications that revolutionize and disrupt modern organizations such as artificial intelligence machine learning and programming languages such as Python to contextualize big data in business and frame the skills necessary for a high performing modern workforce The book provides a conceptual framework analysis and discussion of the issues concerning organizational behavior through the lens of organizational culture and emotions Covering topics that include data driven organizations the digital business models and leadership techniques this book is ideally designed for managers executives IT specialists computer engineers data scientists researchers academicians and students

Make Tero Karvinen,2014

A Hands-On Course in Sensors Using the Arduino and Raspberry Pi

Volker Ziemann,2018-02-19 A Hands On Course in Sensors using the Arduino and Raspberry Pi is the first book to give a practical and wide ranging account of how to interface sensors and actuators with micro controllers Raspberry Pi and other control systems The author describes the progression of raw signals through conditioning stages digitization data storage and presentation The collection processing and understanding of sensor data plays a central role in industrial and scientific activities This book builds simplified models of large industrial or scientific installations that contain hardware and other building blocks including services for databases web servers control systems and messaging brokers A range of case studies are included within the book including a weather station geophones a water colour monitor capacitance measurement the profile of laser beam and a remote controlled and fire seeking robot This book is suitable for advanced undergraduate and graduate students taking hands on laboratory courses in physics and engineering Hobbyists in robotics clubs and other enthusiasts will also find this book of interest Features Includes practical hands on exercises that can be conducted in student labs or even at home Covers the latest software and hardware and all code featured in examples is discussed in detail All steps are illustrated with practical examples and case studies to enhance learning

Getting Started with Sensors Kimmo Karvinen,Tero Karvinen,2014-08-14 To build electronic projects that can sense the physical world you need to build circuits based around sensors electronic components that react to physical phenomena by sending an electrical signal Even with only basic electronic components you can build useful and educational sensor projects But if you incorporate Arduino or Raspberry Pi into your project you can build much more sophisticated projects that can react in

interesting ways and even connect to the Internet This book starts by teaching you the basic electronic circuits to read and react to a sensor It then goes on to show how to use Arduino to develop sensor systems and wraps up by teaching you how to build sensor projects with the Linux powered Raspberry Pi Sensor Projects with Raspberry Pi Guillermo

Guillen,2024-08-10 Use Python to develop Rasperry Pi projects to solve common digital image processing and IoT problems Using a free IoT server you ll tackle fundamental topics and concepts behind theses two areas This second edition includes new content on Artificial Intelligence and updated sensor guidance to help you better explore virtual animations create a homemade spectrometer and master object classification with Edge Impulse Start by creating a system to detect movement with a PIR motion sensor and a Raspberry Pi board Use the MQ2 gas sensor and a Raspberry Pi board as a gas leak alarm system to detect dangerous explosive and fire hazards Then train your system to send the captured data to the remote server ThingSpeak You ll also develop a weather station with your Raspberry Pi Using the DHT11 humidity and temperature sensor and BMP barometric pressure and temperature sensor in conjunction with ThingSpeak and X you can receive real time weather alerts from your own meterological system Spectral sensors used with the Raspberry Pi include the AS7262 six colors and AS7263 near infrared for the construction of a filter spectrometer sensing colored solutions and assessing plant foliage health Finally expand your skills into the popular machine learning world of digital image processing using OpenCV and a Pi Make your own object classifiers and finally manipulate an object by means of an image in movement This skillset has many applications ranging from recognizing people or objects to creating your own video surveillance system With the skills gained from Sensor Projects with Raspberry Pi you ll be well equipped to explore other applications in mobile development and electrical engineering as well What You ll Learn Work with ThingSpeak to receive X alerts from your systems Cultivate skills in processing sensor inputs that are applicable to mobile and machine learning projects Incorporate sensors into projects to make interactive devices Experiment with virtual scenarios and objects Create Python and Pygame games that contain virtual scenarios and animations Detect colored solutions and assess the plant foliage health Who This Book Is For Hobbyists and makers working with robotics and IoT Electronic engineers and programmers who would like to expand their familiarity with basic sensor projects **Arduino and Raspberry Pi Sensor Projects for the Evil Genius**

Robert Chin,2017-11-23 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Fiendishly Clever Sensor Projects for Your Arduino and Raspberry Pi Learn to quickly build your own electronic gadgets that monitor measure and react to the real world with no prior experience required This easy to follow guide covers the programming and electronics essentials needed to build fun and educational sensor based projects with both Arduino and Raspberry Pi Arduino and Raspberry Pi Sensor Projects for the Evil Genius features step by step DIY projects that use inexpensive readily available parts You will discover how to use touch temperature moisture light sound and motion sensors even sensors that detect the presence of a human

Start to finish Arduino and Raspberry Pi projects include Simon Says game Rotary encoder that controls an RGB LED Reed switch door buzzer alarm Fire alarm Sound detector Light clapper Glass break alarm Infrared motion detector Distance sensor intruder alarm Collision alarm TFT color display screen Door entry alarm with SD card logging And many more

Mastering Sensors with Raspberry Pi Pico SARFUL. HASSAN,2025-05-22 Master the power of sensors with Mastering Sensors with Raspberry Pi Pico A Practical Guide to 99 Modules for Makers Engineers and Students by Sarful Hassan your ultimate resource for building smart sensor based hardware projects using the Raspberry Pi Pico and Pico W This hands on guide is perfect for anyone looking to learn and implement real world electronics with MicroPython and Raspberry Pi Pico Whether you re monitoring temperature and humidity detecting motion building a wireless sensor network or exploring biometric and environmental sensing this book walks you through 99 essential modules with clarity and purpose Each chapter includes Sensor module overview with key features Clear wiring diagrams for Raspberry Pi Pico Sample MicroPython code and usage instructions Practical tips and real world use cases No fluff just practical project ready guidance for makers students educators and prototyping professionals From basic components like push buttons and buzzers to advanced modules like GPS LoRa and AI camera systems this book has it all What You ll Learn Interfacing digital and analog sensors with Raspberry Pi Pico Using displays like OLED LCD TFT and 7 segment Connecting communication modules WiFi Bluetooth LoRa GSM Building projects with biometric motion environmental and gas sensors MicroPython programming basics for hardware control Whether you re a beginner or a tech savvy maker this book will help you transform ideas into real sensor driven projects using the Raspberry Pi Pico Start building smarter with Raspberry Pi Pico one sensor at a time

Raspberry Pi 3 Home Automation Projects Shantanu Bhadoria,Ruben Oliva Ramos,2017-11-06 With futuristic homes on the rise learn to control and automate the living space with intriguing IoT projects About This Book Build exciting six end to end home automation projects with Raspberry Pi 3 Seamlessly communicate and control your existing devices and build your own home automation system Automate tasks in your home through projects that are reliable and fun Who This Book Is For This book is for all those who are excited about building home automation systems with Raspberry Pi 3 It s also for electronic hobbyists and developers with some knowledge of electronics and programming What You Will Learn Integrate different embedded microcontrollers and development boards like Arduino ESP8266 Particle Photon and Raspberry Pi 3 creating real life solutions for day to day tasks and home automation Create your own magic mirror that lights up with useful information as you walk up to it Create a system that intelligently decides when to water your garden and then goes ahead and waters it for you Use the Wi fi enabled Adafruit ESP8266 Huzzah to create your own networked festive display lights Create a simple machine learning application and build a parking automation system using Raspberry Pi Learn how to work with AWS cloud services and connect your home automation to the cloud Learn how to work with Windows IoT in Raspberry Pi 3 and build your own Windows IoT Face Recognition door locking system In Detail Raspberry Pi 3 Home Automation

Projects addresses the challenge of applying real world projects to automate your house using Raspberry Pi 3 and Arduino. You will learn how to customize and program the Raspberry Pi 3 and Arduino based boards in several home automation projects around your house in order to develop home devices that will really rejuvenate your home. This book aims to help you integrate different microcontrollers like Arduino ESP8266 Wi-Fi module, Particle Photon and Raspberry Pi 3 into the real world, taking the best of these boards to develop some exciting home automation projects. You will be able to use these projects in everyday tasks, thus making life easier and comfortable. We will start with an interesting project creating a Raspberry Pi Powered smart mirror and move on to Automated Gardening System, which will help you build a simple smart gardening system with plant sensor devices and Arduino to keep your garden healthy with minimal effort. You will also learn to build projects such as CheerLights into a holiday display, a project to erase parking headaches with OpenCV and Raspberry Pi 3, create Netflix's The Switch for the living room and lock down your house like Fort Knox with a Windows IoT face recognition based door lock system. By the end of the book, you will be able to build and automate the living space with intriguing IoT projects and bring a new degree of interconnectivity to your world.

Style and approach End to end home automation projects with Raspberry Pi 3

Arduino in Science Richard J. Smythe, 2021. It's a simple question, but do you know how to take basic measurements with your Arduino, Raspberry Pi or PC? A lot of the times, you know how to use microcontrollers, sensors and programming skills to collect data. This book takes it one step further to teach you how to transform your PC, Raspberry Pi and Arduino to a device that can measure, collect and analyze data. You'll begin from a simple starting point, reviewing the basics of electronics and digital and analog concepts. As you advance through this book, you'll work through 10 exercises to develop a working knowledge of microcontroller properties and graphical data presentation concepts, basic electronic technology and the fundamentals of controlling and acquiring data. Arduino in Science is your guide to monitoring and measuring physical/chemical parameters with integrated circuitry and physical computational systems. You will review fundamental human-machine interfacing with supervisory control and data acquisition software, examine timing, counting and serial communication concepts, adapt microcontrollers to perform sophisticated functions, understand collection and presentation of data.

Beginning Sensor Networks with XBee, Raspberry Pi, and Arduino Charles Bell, 2020-06-25. 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

Building Robots with Raspberry Pi Krysten McSally,2025-05-28 Whether you re a curious beginner a hobbyist or an educator Building Robots with Raspberry Pi A Hands On Approach to Robotics is your ultimate guide to unlocking the world of robotics using the power and versatility of Raspberry Pi This best selling beginner friendly guide takes you step by step through building your own robots from simple automated cars to advanced sensor driven machines You ll learn how to bring mechanical creatures to life while gaining a deep understanding of electronics programming Python included motor control sensors and real world problem solving Inside You ll Discover Clear project based lessons with real life robot builds Easy to follow tutorials using Raspberry Pi and open source components Practical coding examples to make your robot move see and think Troubleshooting tips and creative extensions for every project Perfect for makers students educators and tinkerers this book empowers you to innovate and invent no prior experience required With engaging projects and hands on learning you ll go from zero to robot builder in no time

Getting Started with Sensors Tero Karvinen,Kimmo Karvinen,2014

Atmospheric Monitoring with Arduino Patrick Di Justo,Emily Gertz,2012-11-20 Makers around the globe are building low cost devices to monitor the environment and with this hands on guide so can you Through succinct tutorials illustrations and clear step by step instructions you ll learn how to create gadgets for examining the quality of our atmosphere using Arduino and several inexpensive sensors Detect harmful gases dust particles such as smoke and smog and upper atmospheric haze substances and conditions that are often invisible to your senses You ll also discover how to use the scientific method to help you learn even more from your atmospheric tests Get up to speed on Arduino with a quick electronics primer Build a tropospheric gas sensor to detect carbon monoxide LPG butane methane benzene and many other gases Create an LED Photometer to measure how much of the sun s blue green and red light waves are penetrating the atmosphere Build an LED sensitivity detector and discover which light wavelengths each LED in your Photometer is receptive to Learn how measuring light wavelengths lets you determine the amount of water vapor ozone and other substances in the atmosphere Upload your data to Cosm and share it with others via the Internet The future will rely on citizen scientists collecting and analyzing their own data The easy and fun gadgets in this book show everyone from Arduino beginners to experienced Makers how best to do that Chris Anderson Editor in Chief of Wired magazine author

of Makers The New Industrial Revolution Crown Business Beginning Sensor Networks with Arduino and Raspberry Pi
Charles Bell, 2014-01-23 Beginning Sensor Networks with Arduino and Raspberry Pi teaches you how to build sensor networks with Arduino Raspberry Pi and XBee radio modules and even shows you how to turn your Raspberry Pi into a MySQL database server to store your sensor data First you ll learn about the different types of sensors and sensor networks including how to build a simple XBee network Then you ll walk through building an Arduino based temperature sensor and data collector followed by building a Raspberry Pi based sensor node Next you ll learn 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 even learn how to connect to and interact with a MySQL database server directly from an Arduino Finally you ll learn how to put it all together by connecting your Arduino sensor node to your new Raspberry Pi database server If you want to see how well Arduino and Raspberry Pi can get along especially to create a sensor network then Beginning Sensor Networks with Arduino and Raspberry Pi is just the book you need

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Make Sensors A Hands On Primer For Monitoring The Real World With Arduino And Raspberry Pi Introduction

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