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Keeping an Eye On the Environment Above You

Emily Gertz & Patrick Di Justo



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Atmospheric Monitoring With Arduino Building Simple Devices To Collect Data About The Environment Emily Gertz

Emily Gertz, Patrick Di Justo



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Atmospheric Monitoring with Arduino Patrick Di Justo, Emily Gertz, 2012 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 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

Environmental Monitoring with Arduino Emily Gertz, Patrick Di Justo, 2012 Watching our world with sensors Cover

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

Environmental Monitoring with Arduino Emily Gertz, Patrick Di Justo, 2012-01-26 After the devastating tsunami in 2011 DYIers in Japan built their own devices to detect radiation levels then posted their finding on the Internet Right now thousands of people worldwide are tracking environmental conditions with monitoring devices they ve built themselves You can do it too This inspiring guide shows you how to use Arduino to create gadgets for measuring noise weather electromagnetic interference EMI water purity and more You ll also learn how to collect and share your own data and you can experiment by creating your own variations of the gadgets covered in the book If you re new to DIY electronics the first chapter offers a primer on electronic circuits and Arduino programming Use a special microphone and amplifier to build a reliable noise monitor Create a gadget to detect energy vampires devices that use electricity when they re off Examine water purity with a water conductivity device Measure weather basics such as temperature humidity and dew point Build your own Geiger counter to gauge background radiation Extend Arduino with an Ethernet shield and put your data on the Internet Share your weather and radiation data online through Pachube

Program Earth Jennifer Gabrys, 2016-04-13 Sensors are everywhere Small flexible economical and computationally powerful they operate ubiquitously in environments They compile massive amounts of data including information about air water and climate Never before has such a volume of environmental data been so broadly collected or so widely available Grappling with the consequences of wiring our world Program Earth examines how sensor technologies are programming our environments As Jennifer Gabrys points out sensors do not merely record information about an environment Rather they generate new environments and environmental relations At the same time they give a voice to the entities they monitor to animals plants people and inanimate objects This book looks at the ways in which sensors converge with environments to map ecological processes to track the migration of animals to check pollutants to facilitate citizen participation and to program infrastructure Through discussing particular instances where

sensors are deployed for environmental study and citizen engagement across three areas of environmental sensing from wild sensing to pollution sensing and urban sensing Program Earth asks how sensor technologies specifically contribute to new environmental conditions What are the implications for wiring up environments How do sensor applications not only program environments but also program the sorts of citizens and collectives we might become Program Earth suggests that the sensor based monitoring of Earth offers the prospect of making new environments not simply as an extension of the human but rather as new technogeographies that connect technology nature and people *Atmospheric Monitoring with Arduino* Patrick Di Justo. Emily Gertz,2012 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 Arduino Based Environmental Air Monitoring System Zhuo Li,2017 Environmental air parameters directly affect our daily quality of life and they can change from day to day or even hour to hour With rapid industrialization over the past few decades there is a dramatically increasing demand for people to monitor the local air quality to know how they live and what they breathe In this work we proposed an air monitoring system based on the Arduino platform This environmental air monitoring system is designed to provide an efficient straightforward and robust solution to monitor the air quality continuously and in real time It is a portable system that integrates multiple sensors into a single unit and can be placed anywhere The acquired results are displayed on a screen and can also be saved on a host computer for further analysis

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