Practical Arduino: Cool Projects for Open Source Hardware (Technology in Action)

Von Jonathan Oxer, Hugh Blemings
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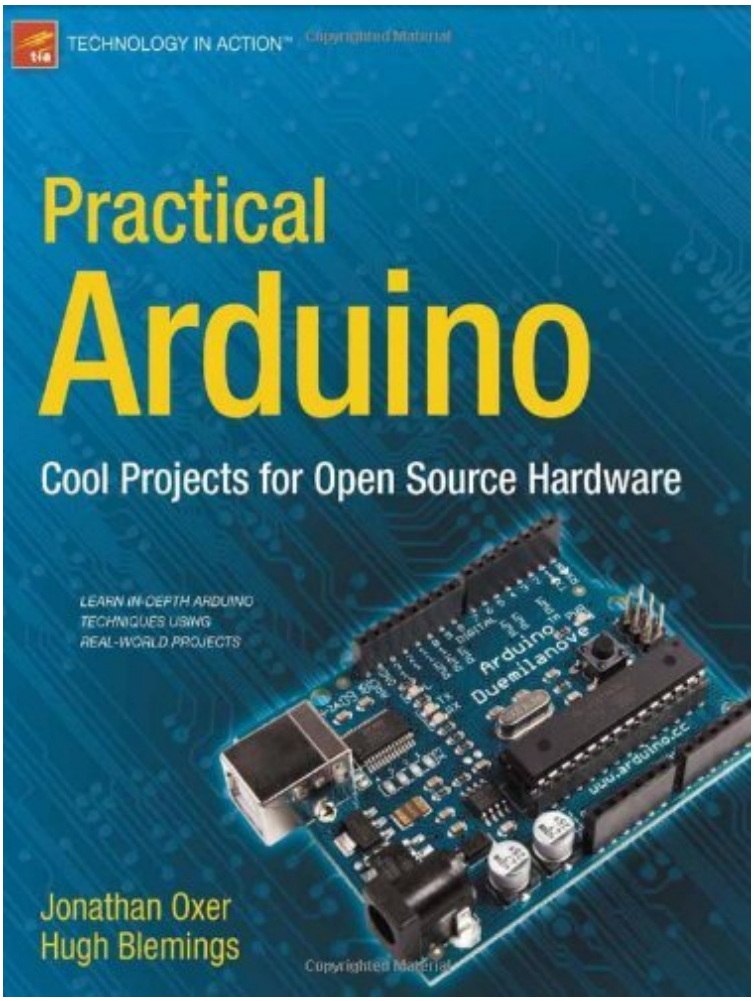

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Von Jonathan Oxer, Hugh Blemings : Practical Arduino: Cool Projects for Open Source Hardware (Technology in Action) before purchasing it in order to gage whether or not it would be worth my time, and all praised Practical Arduino: Cool Projects for Open Source Hardware (Technology in Action):

KurzbeschreibungCreate your own Arduino-based designs, gain in-depth knowledge of the architecture of Arduino, and learn the user-friendly Arduino language all in the context of practical projects that you can build yourself at

home. Get hands-on experience using a variety of projects and recipes for everything from home automation to test equipment. Arduino has taken off as an incredibly popular building block among ubicomp (ubiquitous computing) enthusiasts, robotics hobbyists, and DIY home automation developers. Authors Jonathan Oxer and Hugh Blemings provide detailed instructions for building a wide range of both practical and fun Arduino-related projects, covering areas such as hobbies, automotive, communications, home automation, and instrumentation. Take Arduino beyond "blink" to a wide variety of projects from simple to challenging Hands-on recipes for everything from home automation to interfacing with your car engine management system Explanations of techniques and references to handy resources for ubiquitous computing projects Supplementary material includes a circuit schematic reference, introductions to a range of electronic engineering principles and general hints tips. These combine with the projects themselves to make Practical Arduino: Cool Projects for Open Source Hardware an invaluable reference for Arduino users of all levels. You'll learn a wide variety of techniques that can be applied to your own projects. What youll learn Communication with serial devices including RFID readers, temperature sensors, and GPS modules Connecting Arduino to Ethernet and WiFi networks Adding synthesized speech to Arduino Linking Arduino to web services Decoding data streams from commercial wireless devices How to make DIY prototyping shields for only a couple of dollars Who this book is forThis book is for hobbyists and developers interested in physical computing using a low-cost, easy-to-learn platform. Table of Contents Introduction Appliance Remote Control Time-Lapse Camera Controller Virtual USB Keyboard PS/2 Keyboard or Mouse Input Security/Automation Sensors Online Thermometer Touch Control Panel Speech Synthesizer Water Flow Gauge Oscilloscope/Logic Analyzer Water Tank Depth Sensor Weather Station Receiver RFID Access Control System Vehicle Telemetry Platform Resources KurzbeschreibungCreate your own Arduino-based designs, gain in-depth knowledge of the architecture of Arduino, and learn the user-friendly Arduino language all in the context of practical projects that you can build yourself at home. Get hands-on experience using a variety of projects and recipes for everything from home automation to test equipment. Arduino has taken off as an incredibly popular building block among ubicomp (ubiquitous computing) enthusiasts, robotics hobbyists, and DIY home automation developers. 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What youll learn Communication with serial devices including RFID readers, temperature sensors, and GPS modules Connecting Arduino to Ethernet and WiFi networks Adding synthesized speech to Arduino Linking Arduino to web services Decoding data streams from commercial wireless devices How to make DIY prototyping shields for only a couple of dollars Who this book is forThis book is for hobbyists and developers interested in physical computing using a low-cost, easy-to-learn platform. Table of Contents Introduction Appliance Remote Control Time-Lapse Camera Controller Virtual USB Keyboard PS/2 Keyboard or Mouse Input Security/Automation Sensors Online Thermometer Touch Control Panel Speech Synthesizer Water Flow Gauge Oscilloscope/Logic Analyzer Water Tank Depth Sensor Weather Station Receiver RFID Access Control System Vehicle Telemetry Platform Resources ber den Autor und weitere MitwirkendeJonathan Oxer has been labeled "Australia's Geekiest Man" and has been hacking on both hardware and software since he was a little tacker. He is past-President of Linux Australia, and founder and Technical Director of Internet Vision Technologies. He is author of a number of books including "How To Build A Website And Stay Sane" "Ubuntu Hacks" and "Quickstart Guide to Google AdWords" He has been surgically implanted with an RFID chip and and is set to host an upcoming TV show called "SuperHouse" (www.superhouse.tv) featuring high-tech home renovation, open-source automation systems, and domestic hardware hacking, and has appeared on top-rating TV shows and been interviewed on dozens of radio stations about his home automation system. He was Technical Supervisor for the first season of the new reality-TV show "The Phone" has connected his car to the Internet (www.geekmyride.org) and is also a member of the core team of Lunar Numbat (www.lunarnumbat.org), an Australian group working with the European team White Label Space (www.whitelabelspace.com) on an unmanned moon mission for the Google Lunar X-Prize. (http://en.wikipedia.org/wiki/Jonathan_Oxer) Hugh Blemings has been working on Free software since the mid-90's for fun and as a (still rather fun) paid gig since 1999. He was co-author of the gnokii project, developed kernel device drivers for the Keyspan USB-serial adaptors and most recently has done some porting work for embedded PowerPC platforms. He worked at IBM's Linux Technology Centre as a Open Source Hacker in the Canberra based OzLabs team for just shy of eight years.