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need for a breadboard or soldering  
iron. TinkerKit ...

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Rather than yet another project-based workbook, Arduino: A Technical Reference is a reference and handbook that thoroughly describes

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texts to find the information that corresponds to your own particular setup and question. Reference features include pinout diagrams, a discussion of the AVR microcontrollers used with Arduino boards, a look under the hood at the firmware and run-time libraries that make the

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Arduino unique, and extensive coverage of the various shields and add-on sensors that can be used with an Arduino. One chapter is devoted to creating a new shield from scratch. The book wraps up with detailed descriptions of three different projects: a programmable signal generator, a

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"smart" thermostat, and a programmable launch sequencer for model rockets. Each project highlights one or more topics that can be applied to other applications.

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designed to make it easy for hobbyists to use electronics in homemade projects. With an almost unlimited range of input and output add-ons, sensors, indicators, displays, motors, and more, the Arduino offers you countless ways to create devices that interact with the world around you.

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This second edition of Arduino Workshop has been updated for the latest version of Arduino IDE. It begins with an overview of the Arduino system and then moves on to coverage of various electronic components and concepts, including revised content reflecting advances in

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displays, touchscreens, sensors, motors, GPS, and wireless technology. You'll learn about new hardware and find updated projects that cover areas like touchscreens and LED displays, robotics, using sensors with wireless data links, and even controlling projects remotely through a cell phone.

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Brand new chapters include coverage of MAX7219-based LED numeric displays, LED matrix modules, and creating your own Arduino libraries. Throughout the book, hands-on projects reinforce what you've learned and show you how to apply that knowledge. As your understanding

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grows, the projects increase in complexity and sophistication. Along the way, you'll learn valuable lessons in coding, including how to create your own Arduino libraries to efficiently reuse code across multiple projects. Among the book's 65 projects are useful devices like: • A digital

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thermometer that charts temperature changes on an LCD • A GPS logger that records data from your travels, which can be displayed on Google Maps • A handy tester that lets you check the voltage of any single-cell battery • A keypad-controlled lock that requires a secret code to open You'll

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also learn to build Arduino toys and games like:

- An electronic version of the classic six-sided die
- A binary quiz game that challenges your number conversion skills
- A motorized remote control car with collision detection to keep it from crashing

Arduino Workshop will teach

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you the tricks and design principles of a master craftsman. Whatever your skill level, you'll have fun as you learn to harness the power of the Arduino for your own DIY projects.

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to complete each one, this book covers both the software and hardware aspects of each project and will help students create their own innovative prototypes. --

This book is your introduction to to physical computing with the Arduino

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microcontroller platform. No prior experience is required, not even an understanding of basic electronics. With color illustrations, easy-to-follow explanations, and step-by-step instructions, the book takes the beginner from building simple circuits on a breadboard to setting up the

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Arduino IDE and downloading and writing sketches to run on the Arduino. Readers will be introduced to basic electronics theory and programming concepts, as well as to digital and analog inputs and outputs. Throughout the book, debugging practices are highlighted, so novices will know what

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to do if their circuits or their code doesn't work for the current project and those that they embark on later for themselves. After completing the projects in this book, readers will have a firm basis for building their own projects with the Arduino. Written for absolute beginners with no prior

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using modification, reuse, and experimentation techniques. You'll learn electronics concepts while building cool and practical devices and gadgets based on the Arduino, an inexpensive and easy-to-program microcontroller board that is changing the way people think about home-brew



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work with 2D and 3D graphics, sound, physical interaction, and electronic circuitry to create all sorts of interesting and compelling experiences -- online and off. Programming Interactivity explains programming and electrical engineering basics, and introduces

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three freely available tools created specifically for artists and designers: Processing, a Java-based programming language and environment for building projects on the desktop, Web, or mobile phones  
Arduino, a system that integrates a microcomputer prototyping board, IDE,

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You'll get working code samples you can use right away, along with the background and technical information you need to design, program, build, and troubleshoot your own projects. The cutting edge design techniques and discussions with leading artists and designers will give you the tools

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and inspiration to let your imagination  
take flight.

Arduino Internals guides you to the heart of the Arduino board. Author Dale Wheat shares his intimate knowledge of the Arduino board—its secrets, its strengths and possible



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alternatives to its constituent parts are laid open to scrutiny in this book. You'll learn to build new, improved Arduino boards and peripherals, while conforming to the Arduino reference design. Arduino Internals begins by reviewing the current Arduino hardware and software landscape. In

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particular, it offers a clear analysis of how the ATmega8 board works and when and where to use its derivatives. The chapter on the "hardware heart" is vital for the rest of the book and should be studied in some detail. Furthermore, Arduino Internals offers important information about the CPU

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running the Arduino board, the memory contained within it and the peripherals mounted on it. To be able to write software that runs optimally on what is a fairly small embedded board, one must understand how the different parts interact. Later in the book, you'll learn how to replace certain parts with

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More powerful alternatives and how to design Arduino peripherals and shields. Since Arduino Internals addresses both sides of the Arduino hardware-software boundary, the author analyzes the compiler toolchain and again provides suggestions on how to replace it with something more

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environments, since many Arduino hackers have a background language other than C or Java. Of course, it is possible to optimize the way in which hardware and software interact—an entire chapter is dedicated to this field. Arduino Internals doesn't just focus on the different parts of Arduino

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architecture, but also on the ways in which example projects can take advantage of the new and improved Arduino board. Wheat employs example projects to exemplify the hacks and algorithms taught throughout the book. Arduino projects straddling the hardware-software

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boundary often require collaboration between people of different talents and skills which cannot be taken for granted. For this reason, Arduino Internals contains a whole chapter dedicated to collaboration and open source cooperation to make those tools and skills explicit. One of the



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crowning achievements of an Arduino hacker is to design a shield or peripheral residing on the Arduino board, which is the focus of the following chapter. A later chapter takes specialization further by examining Arduino protocols and communications, a field immediately

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relevant to shields and the  
communication between peripherals  
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