

# HARDWARE HACKING PROJECTS

## for Geeks



Hardware hacking starts with the belief that you have the right to take things apart to see how they work. However, the real fun comes when you realize that you can put things back together in any way you see fit. This may void the warranty, but you could end up with something even better than the original, or, at the very least, an interesting conversation piece. All kinds of consumer electronic equipment can be modified to do things they were never intended to do, and this book shows you how. What's more, becoming a hardware hacker might be easier than you think, even if you have no formal electronics background.

This book contains 15 amazing projects that range from the truly useful to the legendary and wacky. You'll learn how to connect toasters and coffeemakers to a network; upgrade radio-controlled cars and talking toys such as the Furby; and build car-mounted periscopes and home video arcades. You'll see how to turn a Classic Mac into an aquarium and harness ordinary batteries to power your laptop. You'll learn how to build an intruder-detection system for your office cubicle and how to track remote objects as they move around. There's even a project for hacking a 12-story building to use its windows as elements of a huge display screen.

Each project includes step-by-step instructions that even a novice hacker can follow, while also providing the necessary detail to satisfy an experienced hacker. The knowledge gained by building each project can easily be applied to your own projects. If you are unfamiliar with basic electronics, you'll find sections that teach you how to use the tools of the trade; you'll also learn how to read schematics and do basic soldering.

So, whether you're an electronics hobbyist who likes to learn by doing, a software hacker who wants to learn how the other half lives, or a neophyte who has only dreamed of hacking, *Hardware Hacking Projects for Geeks* will inspire you to tinker with all kinds of gadgets and gizmos, and will serve as a jumping-off point for new and clever hacks.

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*"Hardware hackers help restore the balance of power in the consumer hardware space by showing how to liberate, extend, repair, and better control the electronic technologies in your life. This book helps to lower the barrier of entry to hardware hacking. A title deserving of the O'Reilly name, this book has something for everyone, from novice to expert."*

—Andrew "bunnie" Huang,  
author, *Hacking the Xbox*



### About the Author

Scott Fullam has been hacking hardware since he was ten years old with his first Radio Shack 100-in-1 electronics set. After hacking his way through two degrees at MIT, he designed and built children's toys, digital cameras, PDAs, and robots. Scott holds more than 15 U.S. and international patents. He is currently teaching his one-year-old daughter to count in binary.

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# Hardware Hacking Projects For Geeks

**Stephen Cawood**



## Hardware Hacking Projects For Geeks:

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Catsoulis brings a wealth of real world experience to show readers how to design and create entirely new embedded devices and computerized gadgets as well as how to customize and extend off the shelf systems *BlackBerry Hacks* Dave Mabe, 2005-10-13 The BlackBerry has become an invaluable tool for those of us who need to stay connected and in the loop But most people take advantage of only a few features that this marvelous communications device offers What if you could do much more with your BlackBerry than just web surfing and email BlackBerry Hacks will enhance your mobile computing with great tips and tricks You ll learn that the BlackBerry is capable of things you never thought possible and you ll learn how to make it an even better email and web workhorse Get the most out of the built in applications Take control of email with filters searches and more Rev up your mobile gaming whether you re an arcade addict or poker pro Browse the web chat over IM and keep up with news and weblogs Work with office documents spell check your messages and send faxes Become more secure lock down your BlackBerry and stash secure information somewhere safe Manage and monitor the BlackBerry Enterprise Server BES and Mobile Data System MDS Create web sites that look great on a BlackBerry Develop and deploy BlackBerry applications Whether you need to schedule a meeting from a trade show floor confirm your child s next play date at the park or just find the show times and secure movie tickets while at dinner this book helps you use the remarkable BlackBerry to stay in touch and in the know no matter where you are or where you go *Astronomy Hacks* Robert Bruce Thompson, Barbara Fritchman Thompson, 2005 Astronomy Hacks begins the space exploration by getting you set up with the right equipment for observing and admiring the stars in an urban setting Along for the trip are first rate tips for making most of observations The hacks show you how to Dark Adapt Your Notebook Computer Choose the Best Binocular Clean Your Eyepieces and Lenses Safely Upgrade Your Optical Finder Photograph the Stars with Basic Equipment **The Medical Device R&D Handbook, Second Edition** Theodore R. Kucklick, 2012-12-05 Exploring the practical entrepreneurial and historical aspects of medical device development this second edition of The Medical Device R D Handbook provides a how to guide for medical device product development The book offers knowledge of practical skills such as prototyping plastics selection and catheter construction allowing designers to apply these specialized techniques for greater innovation and time saving The author discusses the historical background of various technologies helping readers understand how and why certain devices were developed The text also contains interviews with leaders in the industry who offer their vast experience and insights on how to start and grow successful companies both what works and what doesn t work This updated and expanded edition adds new information to help meet the challenges of the medical device industry including strategic intellectual property management operating room observation protocol and the use of new technologies and new materials in device development **The Medical Device R&D Handbook** TED KUCKLICK, 2012-12-05 Exploring the practical entrepreneurial and historical aspects of medical device development this second edition of The Medical Device R D Handbook provides a how to guide for medical device product development The book offers knowledge of practical skills

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**Baseball Hacks** Joseph Adler, 2006-01-31 Baseball Hacks isn t your typical baseball book it s a book about how to watch research and understand baseball It s an instruction manual for the free baseball databases It s a cookbook for baseball research Every part of this book is designed to teach baseball fans how to do something In short it s a how to book one that will increase your enjoyment and knowledge of the game So much of the way baseball is played today hinges upon interpreting statistical data Players are acquired based on their performance in statistical categories that ownership deems most important Managers make in game decisions based not on instincts but on probability how a particular batter might fare against left handed pitching for instance The goal of this unique book is to show fans all the baseball related stuff that they can do for free or close to free Just as open source projects have made great software freely available collaborative projects such as Retrosheet and Baseball DataBank have made great data freely available You can use these data sources to research your favorite players win your fantasy league or appreciate the game of baseball even more than you do now Baseball Hacks shows how easy it is to get data process it and use it to truly understand baseball The book lists a number of sources for current and historical baseball data and explains how to load it into a database for analysis It then introduces several powerful statistical tools for understanding data and forecasting results For the uninitiated baseball fan author Joseph Adler walks readers through the core statistical categories for hitters batting average on base percentage etc pitchers earned run average strikeout to walk ratio etc and fielders putouts errors etc He then extrapolates upon these numbers to examine more advanced data groups like career averages team stats season by season comparisons and more Whether you re a mathematician scientist or season ticket holder to your favorite team Baseball Hacks is sure to have something for you Advance praise for Baseball Hacks Baseball Hacks is the best book ever

written for understanding and practicing baseball analytics A must read for baseball professionals and enthusiasts alike Ari Kaplan database consultant to the Montreal Expos San Diego Padres and Baltimore Orioles The game was born in the 19th century but the passion for its analysis continues to grow into the 21st In Baseball Hacks Joe Adler not only demonstrates that the latest data mining technologies have useful application to the study of baseball statistics he also teaches the reader how to do the analysis himself arming the dedicated baseball fan with tools to take his understanding of the game to a higher level Mark E Johnson Ph D Founder SportMetrika Inc and Baseball Analyst for the 2004 St Louis Cardinals The Tuning of Place Richard Coyne, 2010-03-26 How pervasive digital devices smartphones iPods GPS navigation systems and their networks us formulate a sense of place and refine social relationships How do pervasive digital devices smartphones iPods GPS navigation systems and cameras among others influence the way we use spaces In The Tuning of Place Richard Coyne argues that these ubiquitous devices and the networks that support them become the means of making incremental adjustments within spaces of tuning place Pervasive media help us formulate a sense of place writes Coyne through their capacity to introduce small changes in the same way that tuning a musical instrument invokes the subtle process of recalibration Places are inhabited spaces populated by people their concerns memories stories conversations encounters and artifacts The tuning of place whereby people use their devices in their interactions with one another is also a tuning of social relations The range of ubiquity is vast from the familiar phones and hand held devices through RFID tags smart badges dynamic signage microprocessors in cars and kitchen appliances wearable computing and prosthetics to devices still in development Rather than catalog achievements and predictions Coyne offers a theoretical framework for discussing pervasive media that can inform developers designers and users as they contemplate interventions into the environment Processes of tuning can lead to consideration of themes highly relevant to pervasive computing intervention calibration wedges habits rhythm tags taps tactics thresholds aggregation noise and interference Gaming Hacks Simon Carless, 2004 Aimed at avid and or highly skilled video gamers Gaming Hacks offers a guide to pushing the limits of video game software and hardware using the creative exploits of the gaming gurus **Popular Science**, 2004-07 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **New Scientist and Science Journal**, 2004

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