

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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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

The Enigmatic Realm of **Hardware Hacking Projects For Geeks**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Hardware Hacking Projects For Geeks** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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