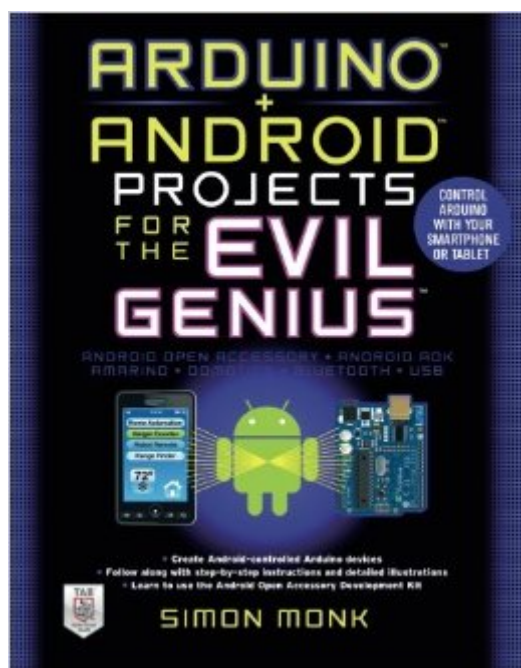# Arduino + Android Projects For The Evil Genius: Control Arduino With Your Smartphone Or Tablet

Synopsis

TEAM ARDUINO UP WITH ANDROID FOR SOME MISCHIEVOUS FUN! Filled with practical, do-it-yourself gadgets, Arduino + Android Projects for the Evil Genius shows you how to create Arduino devices and control them with Android smartphones and tablets. Easy-to-find equipment and components are used for all the projects in the book. This wickedly inventive guide covers the Android Open Application Development Kit (ADK) and USB interface and explains how to use them with the basic Arduino platform. Methods of communication between Android and Arduino that don't require the ADK--including sound, Bluetooth, and WiFi/Ethernet are also discussed. An Arduino ADK programming tutorial helps you get started right away. Arduino + Android Projects for the Evil Genius: Contains step-by-step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying principles behind the projects Removes the frustration factor--all required parts are listed Provides all source code on the book's website Build these and other devious devices: Bluetooth robot Android Geiger counter Android-controlled light show TV remote Temperature logger Ultrasonic range finder Home automation controller Remote power and lighting control Smart thermostat RFID door lock Signaling flags Delay timer

Book Information

Series: Evil Genius

Paperback: 224 pages

Publisher: McGraw-Hill Education TAB; 1 edition (December 6, 2011)

Language: English

ISBN-10: 007177596X

ISBN-13: 978-0071775960

Product Dimensions: 8.5 x 0.4 x 10.9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 starsÂ Â See all reviewsÂ (19 customer reviews)

Best Sellers Rank: #601,859 in Books (See Top 100 in Books)   #66 inÂ Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > Microprocessor Design #173 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Microelectronics   #246 inÂ Books > Computers & Technology > Hardware & DIY > Single Board Computers

Customer Reviews

PROSInteresting projectsFour ways to interface Android to ArduinoGood step-by-step instructions

for building hardwareCONSNo explanation for Android app codeThree of four interface styles require a wire connection between Arduino and AndroidInadequate explanation of workings of the overall projectHIGHLIGHTSThe projects in this book are more interesting than the predecessor, 30 Arduino Projects for the Evil Genius. Part 1 of the book has an assortment of interesting Android+Arduino projects on a variety of subjects. Part 2 is dedicated to home automation. I have the sense that the book was originally going to be dedicated to home automation, because one of the chapters in the home automation section refers to Chapter 7 as Chapter 1. For a full list of projects with a brief description, visit the book's site at [...] (change "spot" to "." and don't forget the www or it won't work).The most valuable thing about this book is four useful interfaces that allow an Android device to control an Arduino. They are: bluetooth, wired USB, wired sound port (you don't actually hear it), and wired ethernet. Realistically, Android as a controller is best in wireless form, and only the bluetooth interface does that. A TV Remote design that requires plugging the Arduino into the Android via a USB cable is just clunky. The author could have presented Wifi and Zigbee, both of which are wireless and should work with most Android tablets and Arduinos with additional hardware; Zigbee requires an IOIO plug-in for the Android.

Other books in this series, and others by Simon Monk, have been well received and received good to excellent reviews. I had high expectations when I bought this book.Its a serious disapointment. There is very little about Android in this book. It covers the Adruino side fairly well, but each project is a combination of part Android and part Arduino, and the Android side is essentially missing.The book stated repeatidly that covering Android is too complex and would take its own book. OK, but why then does this book's title claim to do exactly this? The body does not deliver. A typical project will show 30 lines of Java/Dalvik and say "download the rest" with little to no explaination as to what the code does.The author makes some strange engineering decisions, such as using an encoded audio format to transfer data between the Android and Arduino, but does not explain why this choice was made. The very first project uses Bluetooth to transmit data, and both the Andriod phone/table and Adruino boards have USB. One might expect a simple USB data connection rather than the strange audio encoding.The book appears to have been quickly written and sloppily edited. For example, the section about "temperature logger" talks about the IC for the ultrasonic range finder, which is the topic of the next chapter. Clearly a bit too much copy and paste of the text.The theory sections of each project, which is often a key part of each chapter in other books in this series, are very thin and don't discuss either theory or the rationale behind the engineering decisions in the book.The book contains only a small number of projects, and four of them use exactly the same

Arduino controller board.

Arduino + Android Projects for the Evil Genius: Control Arduino with Your Smartphone or Tablet Android: Android Programming And Android App Development For Beginners (Learn How To Program Android Apps, How To Develop Android Applications Through Java Programming, Android For Dummies) Apps: Make Your First Mobile App Today- App Design, App Programming and Development for Beginners (ios, android, smartphone, tablet, apple, samsung, App ... Programming, Mobile App, Tablet App Book 1) Android Smartphone help: Take care of your android (smartphone guide Book 1) The Definitive Guide To the Best Way to Turn Your Nook HD+ Into a Full Android Tablet (The Best Way To Transform Your Nook Into a Full Android Tablet Book 1) The Definitive Guide To the Best Way to Turn Your Nook HD Into a Full Android Tablet (The Best Way To Transform Your Nook Into a Full Android Tablet Book 2) Android: Programming in a Day! The Power Guide for Beginners In Android App Programming (Android, Android Programming, App Development, Android App Development, ... App Programming, Rails, Ruby Programming) Android at Work: 150-Plus Must Have Apps for Android Phones and Tablets: The complete guide to the best free phone and tablet Android apps Programming #8:C Programming Success in a Day & Android Programming In a Day! (C Programming, C++programming, C++ programming language, Android , Android Programming, Android Games) 30 Arduino Projects for the Evil Genius 30 Arduino Projects for the Evil Genius, Second Edition Arduino: Complete Beginners Guide For Arduino - Everything You Need To Know To Get Started (Arduino 101, Arduino Mastery) Android Smartphone User Guide For Beginners : All Android Versions Including New 7.0 Nougat Android XBMC Kodi 5 In 1 User Guide (Updated September 2016): Android Tablet, Phone & Google TV User Guide, XBMC Kodi & TV Streaming User Guide DIY Woodworking Projects: 20 Easy Woodworking Projects For Beginners: (Woodworking Projects to Make with Your Family, Making Fun and Creative Projects, ... projects, wooden toy plans, wooden ships) My Digital Entertainment for Seniors (Covers movies, TV, music, books and more on your smartphone, tablet, or computer) (My...) Embedded Programming with Android: Bringing Up an Android System from Scratch (Android Deep Dive) Android Programming BOX SET: ANDROID PROGRAMMING and ANDROID GAME PROGRAMMING - 2 Books in 1 (Second Edition) Android Tips and Tricks: Covers Android 5 and Android 6 devices (2nd Edition) Android Tips and Tricks: Covers Android 5 and Android 6 devices