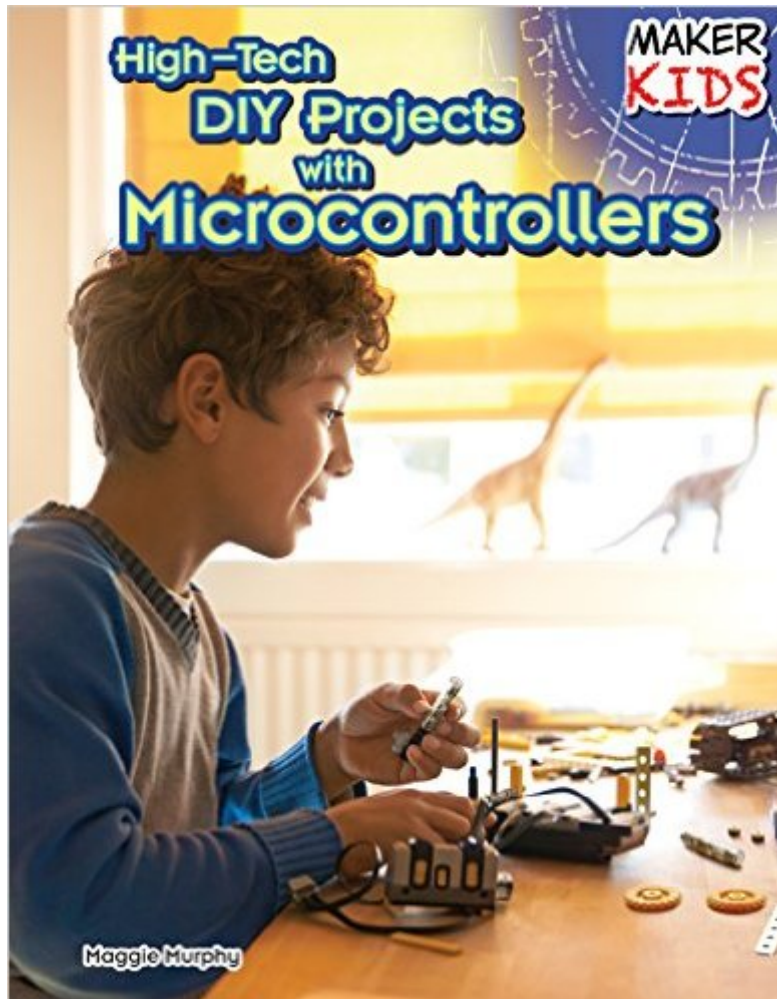# High-Tech DIY Projects With Microcontrollers (Maker Kids)

Synopsis

Microcontrollers are small computers embedded in many everyday devices. The average person interacts with several of them each day without even thinking about it. But why have microcontrollers become so ubiquitous, in what devices are they found, andmost importantlyhow does one go about making one? All this and more is explained in the engaging text. It will turn even the technologically illiterate into budding tech wizards.

Book Information

Series: Maker Kids

Hardcover: 32 pages

Publisher: PowerKids Press (August 1, 2014)

Language: English

ISBN-10: 1477766715

ISBN-13: 978-1477766712

Product Dimensions: 8.6 x 0.3 x 11 inches

Shipping Weight: 14.4 ounces (View shipping rates and policies)

Average Customer Review: 3.0 out of 5 ststarsÂ Â See all reviewsÂ (1 customer review)

Best Sellers Rank: #3,460,023 in Books (See Top 100 in Books)   #50 inÂ Books > Children's Books > Computers & Technology > Hardware & Robotics   #278 inÂ Books > Children's Books > Computers & Technology > Programming   #3265 inÂ Books > Children's Books > Activities, Crafts & Games > Crafts & Hobbies

Age Range: 8 - 11 years

Grade Level: 3 - 6

Customer Reviews

I checked this book out at the local library to see if it was fitting for Middle and High School students. It was helpful, but I found it to be a little on the light side. This book is an elementary intro to Microcontrollers and where they exist around us (RC cars, digital watches, etc.). Halfway through the book the author suggests joining a club. The rest of the book has a few DIY projects. The discussion builds by going over littleBits (3 pages, 1 project-make an auto-greeter, web address provided for more), Dreambits (1 page, reference next level of littleBits), and Arduino (8 pages, 1 project-make it blink, web link provided for more projects - RGB LED & Electronic Die).Overall, I had expected it to be filled with projects. This is a good book for elementary school aged kids, or those with no background in computers. The sad thing is that many schools do not promote computer

science or programming within common curriculum. This book does help students and parents promote STEAM (STEM+Art) in the classroom through maker culture. It that case, the book is good first step. Those interested in DIY projects should look at the littleBits and Arduino websites for skill appropriate projects. For a book with DIY in the title I was hoping for more projects. I feel that the littleBits and Arduino Starter Kits themselves have more to offer.

High-Tech DIY Projects with Microcontrollers (Maker Kids) DIY Wood Pallet Projects: 33 Amazingly Creative Upcycling Projects & Ideas for Decorating, Refreshing and Personalizing Your Space! (DIY Household Hacks, DIY Projects, Woodworking) DIY Wood Pallet Projects: 23 Creative Wood Pallet Projects That Are Easy To Make And Sell! (DIY Household Hacks, DIY Projects, Woodworking) High-Tech DIY Projects with Robotics (Maker Kids) High Tech Start Up, Revised and Updated: The Complete Handbook For Creating Successful New High Tech Companies Make: Tech DIY: Easy Electronics Projects for Parents and Kids Maker Projects for Kids Who Love Music (Be a Maker!) Maker Projects for Kids Who Love Electronics (Be a Maker!) The Big Book of Maker Skills (Popular Science): Tools & Techniques for Building Great Tech Projects DIY Projects: Save Time & Money Maintaining Your Home With Simple DIY Household Hacks, Home Remedies: Increase Productivity & Save Time with Frugal Living ... And Organizing, Increase Productivity) C Programming for Microcontrollers Featuring ATMEL's AVR Butterfly and the free WinAVR Compiler Cracking the Tech Career: Insider Advice on Landing a Job at Google, Microsoft, Apple, or any Top Tech Company DIY Craft Projects for Minecraft & Pixel Art Fans: Fun & Easy To Make Projects for All Ages (Unofficial) Paracord Outdoor Gear Projects: Simple Instructions for Survival Bracelets and Other DIY Projects Books For Kids: The Misadventures of Mischievous Missy (KIDS ADVENTURE BOOKS #9) (Kids Books, Children Books, Kids Stories, Kids Adventure, Kids Fantasy, Mystery, Series Books Kids Ages 4-6 6-8 9-12) Death Of The Dollar: The Prepper's DIY Guide To Bartering, Surviving, An, Economic Collapse, And, The Death Of Money, (Financial Crisis, Global Recession, ... Capitol Controls, DIY, Money) Book 1) Lettering: Beginners Guide to Lettering and Calligraphy Fonts for DIY Crafts and Art (Typography, Hand Writing, Paper Crafts, Thank You Notes, DIY wedding, Drawing, Hand Lettering Book 1) The Skinny Ice Cream Maker: Delicious Lower Fat, Lower Calorie Ice Cream, Frozen Yogurt & Sorbet Recipes For Your Ice Cream Maker The Smoothie Maker Recipe Book: Delicious Superfood Smoothies for Weight Loss, Good Health and Energy - Works with Any Personal Blender or Smoothie Maker Seventh Son (Tales of Alvin Maker, Book 1) (Tales of Alvin Maker (Audio))