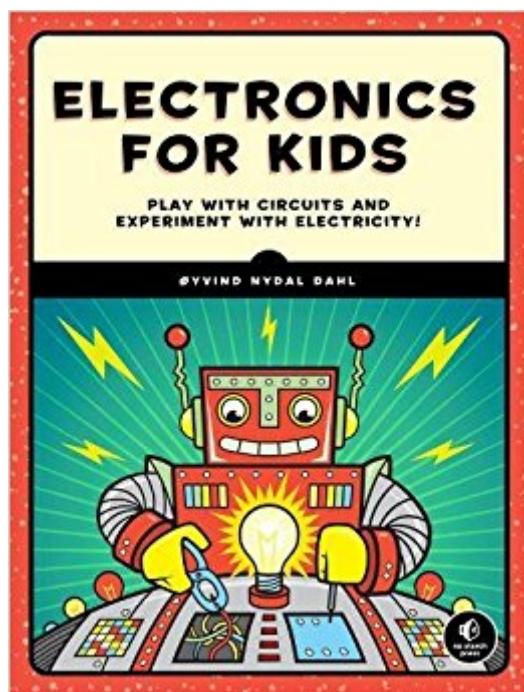


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# Electronics For Kids: Play With Simple Circuits And Experiment With Electricity!



## Synopsis

Why do the lights in a house turn on when you flip a switch? How does a remote-controlled car move? And what makes lights on TVs and microwaves blink? The technology around you may seem like magic, but most of it wouldn't run without electricity. *Electronics for Kids* demystifies electricity with a collection of awesome hands-on projects. In Part 1, you'll learn how current, voltage, and circuits work by making a battery out of a lemon, turning a metal bolt into an electromagnet, and transforming a paper cup and some magnets into a spinning motor. In Part 2, you'll make even more cool stuff as you: "Solder a blinking LED circuit with resistors, capacitors, and relays" "Turn a circuit into a touch sensor using your finger as a resistor" "Build an alarm clock triggered by the sunrise" "Create a musical instrument that makes sci-fi sounds" Then, in Part 3, you'll learn about digital electronics "things like logic gates and memory circuits" as you make a secret code checker and an electronic coin flipper. Finally, you'll use everything you've learned to make the LED Reaction Game "test your reaction time as you try to catch a blinking light! With its clear explanations and assortment of hands-on projects, *Electronics for Kids* will have you building your own circuits in no time.

## Book Information

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Age Range: 10 and up

Grade Level: 5 - 9

## Customer Reviews

Äyvind Nydal Dahl built his first circuit at 14 and has been passionate about electronics ever since.

He has a masterâ™s degree in electronics from the University of Oslo, helps companies develop new products, and travels the world while teaching electronics workshops. He also writes beginner-friendly tutorials at <http://www.build-electronic-circuits.com>.

An excellent book for kids beginning electronics. The book is laid out in a fashion that builds confidence and knowledge for later chapters. It is written in a fun and engaging way - my ten year old loves it and the projects thus far. The breadboard projects are his preference as parts can then be re-purposed for other projects. This books provides a variety of projects not found in other sources. Highly recommend!

If I could give this 10 stars I would! I'm using it to homeschool my 7 year old in electronics. This would be great for older kids and adults as well.

I purchased this book for my 6-year-old son. We're just on the second project, but he's enjoying the book. Here's what I like:- breakdown of concepts- approachable material for beginners- reads like a textbook, but not as boring! Here's what I'd like to see- quizzes at the end of each project- more product alternatives if suggestions are unavailable Some of the item numbers were no longer available through the supplier. That made it a little tough to decide what substitute to purchase, especially since I have no experience with creating engineering projects! Overall, I would highly recommend this book.

Good information for beginning, Along with good ideas for further projects.

Fun reading and great learning material. Easy to follow and easy to do. Step by step instructions are clear and easy for anyone.

My 7 year old son is hooked!! Great resource for him.

This book could have been infinitely better with a small packet of parts. This is a great catalog of projects which motivated kids can refer to. The pictures are good and the instructions are great. Each project is explained in a step by step manner with a description of what is happening. However, one thing that I felt was unfortunate was that the book expects the reader to go out and acquire all the parts on his own. It seems like attaching a small box of basic parts (an LED, zinc/copper pins,

pre-stripped wires, breadboard, etc) would have gone far to really bootstrap a kid receiving this. As it is, the book is great in what it does, which is provide project ideas and detailed information to support motivated kids. However if it increased its scope just a little bit it could be an enormously useful and fun thing.

I enjoyed this book enough to recommend it to some parents of students that I know would love to try out some of the projects. Heck, I'm going to try out some of those projects myself!

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