



# Electronics for Kids: Play with Simple Circuits and Experiment with Electricity!

By Oyvind Nydal Dahl

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## Electronics for Kids: Play with Simple Circuits and Experiment with Electricity! By Oyvind Nydal Dahl

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.

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#### **About the Author**

Oyvind Nydal Dahl built his first circuit at 14 and has been passionate about electronics ever since. He has a master'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/>.

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