



Learn Electronics with Arduino (Technology in Action)

Don Wilcher

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Have you ever wondered how electronic gadgets are created? Do you have an idea for a new proof-of-concept tech device or electronic toy but have no way of testing the feasibility of the device? Have you accumulated a junk box of electronic parts and are now wondering what to build?

Learn Electronics with Arduino will answer these questions to discovering cool and innovative applications for new tech products using modification, reuse, and experimentation techniques. You'll learn electronics concepts while building cool and practical devices and gadgets based on the Arduino, an inexpensive and easy-to-program microcontroller board that is changing the way people think about home-brew tech innovation.

Learn Electronics with Arduino uses the discovery method. Instead of starting with terminology and abstract concepts, You'll start by building prototypes with solderless breadboards, basic components, and scavenged electronic parts. Have some old blinky toys and gadgets lying around? Put them to work! You'll discover that there is no mystery behind how to design and build your own circuits, practical devices, cool gadgets, and electronic toys.

As you're on the road to becoming an electronics guru, you'll build practical devices like a servo motor controller, and a robotic arm. You'll also learn how to make fun gadgets like a sound effects generator, a music box, and an electronic singing bird.

What you'll learn

- Electronics fundamentals using the discovery method
- How to make your own embedded diagnostics for your gadgets
- How to drive servos and DC motors with Arduino
- How to work with analog signals and sound
- How to put photocells to work
- How to create LED displays

Who this book is for

This book will appeal to inventors, engineers, educators, and technology students interested in exploring rapid product design concepts by modifying circuits, using the Arduino, and reuse of discarded non-functional electronics.



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