



# Basic Electronics for Tomorrow's Inventors: A Thames and Kosmos Book

*Nick Dossis*

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## **Learn about electronics with fun experiments and projects**

Created in partnership with Thames & Kosmos, *Basic Electronics for Tomorrow's Inventors* introduces you to essential electronics concepts through fun, do-it-yourself projects. You'll get tips for setting up your home workbench, safely handling materials, and creating a variety of entertaining gadgets. All of the projects and experiments use inexpensive, readily available electronic components and different types of breadboard, which creates a plug-and-play environment for you to build electronic circuits?no soldering required!

### *Inside you'll find:*

- **Things You'll Need**--lists of all the electronic components and equipment required for each experiment
- **A Circuit Diagram**--shows how each of the electronic components are connected to produce the experiment
- **How the Circuit Works**--identifies the building blocks used to make the circuit and helps you read circuit diagrams
- **Breadboard Layout**--close-up photographs that guide you in building each electronic circuit
- **Time to Experiment**--explains how to get your experiment working

### *Step-by-step projects include:*

#### *Phone experiments*

- Make an LED light up
- Make an LED flash
- Create colors with an RGB LED
- Build a working telephone

#### *Dashboard experiments*

- Create indicator lights
- Build a temperature sensor
- Make an electronic horn
- Set up a water sensor

#### *Security experiments*

- Design a basic alarm circuit
- Make a pressure-sensitive mat
- Create a touch-activated alarm
- Build an electronic security keypad
- Make a reading light that switches on when it goes dark

*Electronic game experiments*

- Create a random number generator
- Flip an electronic coin
- Get ready for infrared target practice
- Build a sound-effects generator

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