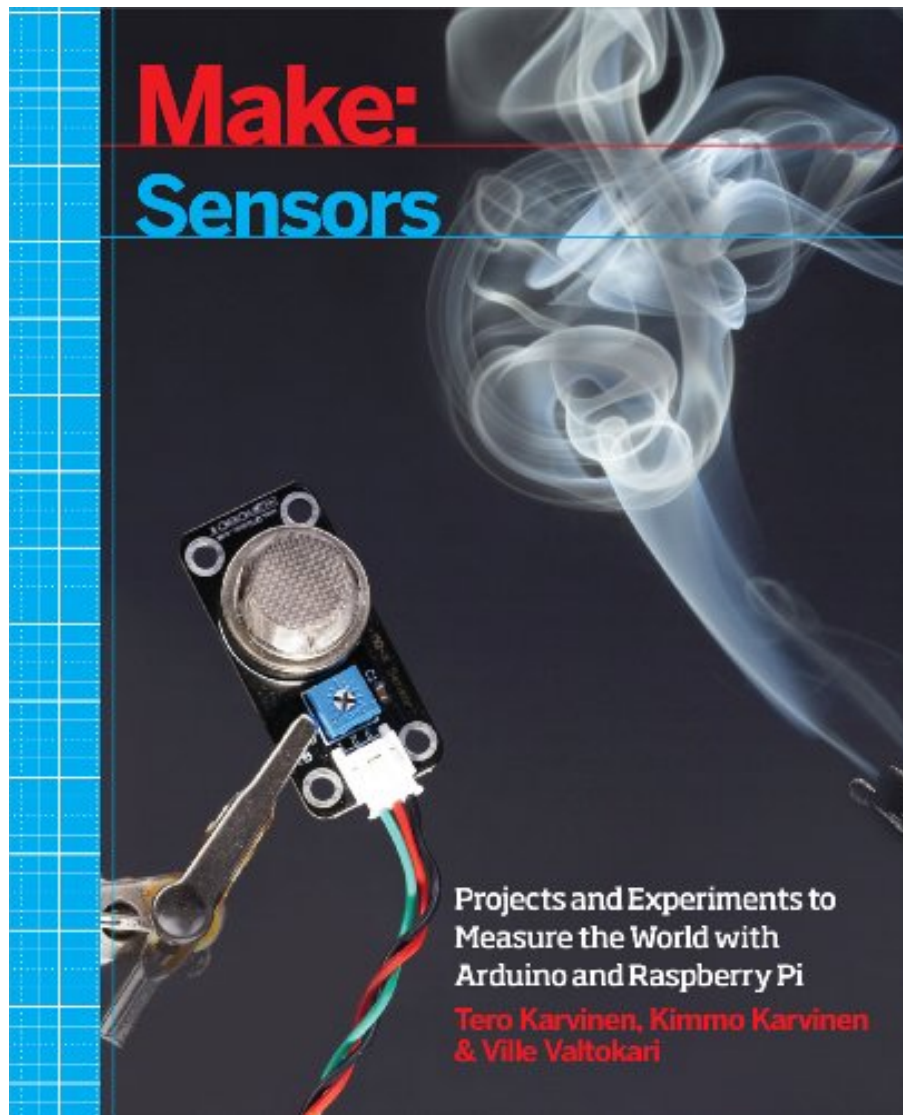


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## About the Author

Tero Karvinen teaches Linux and embedded systems in Haaga-Helia University of Applied Sciences, where his work has also included curriculum development and research in wireless networking. He previously worked as a CEO of a small advertisement agency. Tero's education includes a Masters of Science in Economics.

Kimmo Karvinen works as a CEO in a leading company specialized in AV automation in Finland. Before that, he worked as CTO for a hardware manufacturer that specializes in smart building technology, as a marketing communications project leader, and as a creative director and partner in advertisement agency. Kimmo's education includes a Masters of Art and he's currently working toward his D.Sc. at Helsinki University of Technology.

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Make: Sensors is the definitive introduction and guide to the sometimes-tricky world of using sensors to monitor the physical world. With dozens of projects and experiments for you to build, this book shows you how to build sensor projects with both Arduino and Raspberry Pi. Use Arduino when you need a low-power, low-complexity brain for your sensor, and choose Raspberry Pi when you need to perform additional processing using the Linux operating system running on that device. You'll learn about touch sensors, light sensors, accelerometers, gyroscopes, magnetic sensors, as well as temperature, humidity, and gas sensors.

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- Number of items: 1
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- Binding: Paperback
- 400 pages

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40 of 41 people found the following review helpful.

Sensors for Dummies

By Matha Goram

This primer bridges both worlds of Arduino and Raspberry Pi with excellent attention to details for the uninitiated. If you need proven solutions AND willing to fork some \$\$\$ for the sensors you will achieve a sense of satisfaction in quickly reproducing the abundant examples in the book.

The more I use the book to evaluate the exercises, the more I am impressed by the attention to detail by the authors. Of course, there will always be opportunities to explain things in more detail for diverse audiences but I have to confess that most of the discrepancies I am capturing below may be due to "operator error!" :)

I will append editorial oversights below as I dutifully step through each chapter [be warned: this is not my day job :)]

Figure 1-7 does not match Table 1-1

Example 3-5 assumes that the on-board LED (pin #13) is used in Figure 3-10

Example 3-4 invokes "botbook\_gpio.py" which failed compilation in my IDLE 3 environment (I corrected the print statements) at line 25, column 20 for the "wa" dual attribute. Apparently one attribute is allowed in my configuration. Not knowing enough about the low level details, I changed the setting to a single attribute but ran into "timeout" problems with the pulseInHigh(echoPin) method. Perhaps an example of the "operator error" I alluded to earlier.

34 of 35 people found the following review helpful.

√ Whoa! One Excellent Book!

By Bassocantor

I thought this book would just cover interface circuits. What I got instead was a far more complete, detailed manual about many important features of both the Arduino and Pi. For my "Geocaching" hobby, we use Arduino to build self-contained "Geocaches" in the San Francisco Bay Area, so I am familiar with some of the input circuits of that device, such as keyboards, LED's, etc. It was fun to see all the different sensors that can be used. Great ideas to try-out!

The book divides the sensors into the following categories:

Distance

Smoke/Gas

Touch

Movement

Light

Acceleration

Identity

Electricity

Each section has a good general overview of what you are trying to measure, and the math involved. Then, a sample sensor is introduced, with detailed instructions on how to hook it up. Tips on where to find the datasheets, along with URL's are included.

The sections on setting up Arduino and the one on Raspberry Pi are outstanding. Detailed, clear instructions on how to hook-up, download software, and get your first "Hello World" program off the ground. Includes links to websites that have the free OS or utilities.

I appreciate the information about all the extra cables, etc., that are required to get either device up and running. The low cost can be deceiving, since all the interface circuitry and cables can really add-up.

√ VERY IMPRESSIVE BOOK. HIGHLY RECOMMEND!

(I see that the publisher's HQ is not too far away; we'll have to place some Arduino-based geocachers right next to MakerMedia HQ.)

22 of 24 people found the following review helpful.

A Mighty Find

By Amazon Customer

For those of you wondering what to do with that Raspberry Pi sitting in your desk drawer (the one you were once so excited about when it first arrived?), well wonder no more. Put that processor (and your brain) to work building electronic devices to interface it with! This book will show you how. It isn't for the technophobe, or the plug-n-play set (who on earth would think that?). By the same token, it isn't an esoteric techno-tome either: it is a well-written, keenly and cleanly explained guide to getting started. Your personal tricorder awaits its development! Plenty of explanation is provided for the Linux noob. The beauty of this book is in its ability to catch and hold one's interest: there are dozens of projects requiring a wide range of ambition (notice I didn't use the word 'expertise'), each contributing to the store of knowledge you'll acquire in the use of the Pi, in computing and in electronics. This is properly a hands-on book. I'm a teacher researching curriculum for my students, and the title sums up my view. They will eat this up like Kibbles and Bits. Score!

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