Make: Lego and Arduino Projects: Projects for extending MINDSTORMS NXT with open-source electronics

By John Baichtal, Matthew Beckler, Adam Wolf

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Make amazing robots and gadgets with two of today's hottest DIY technologies. With this easy-to-follow guide, you'll learn how to build devices with Lego Mindstorms NXT 2.0, the Arduino prototyping platform, and some add-on components to bridge the two. Mindstorms alone lets you create incredible gadgets. Bring in Arduino for some jaw-dropping functionality—and open a whole new world of possibilities.

Build a drink dispenser, music synthesizer, wireless lamp, and more

Each fun and fascinating project includes step-by-step instructions and clear illustrations to guide you through the process. Learn how to set up an Arduino programming environment, download the sketches and libraries you need, and work with Arduino's language for non-programmers. It's a perfect book for students, teachers, hobbyists, makers, hackers, and kids of all ages.

- Build a Drawbot that roams around and traces its path with a marker pen
- Construct an analog Mindstorms clock with hands that display the correct time
- Create a machine that mixes a glass of chocolate milk at the touch of a button
- Make a Gripperbot rolling robotic arm that you control wirelessly with Arduinos mounted on your arms
- Explore electronic music by building a guitar-shaped Lego synthesizer
- Build a Lego lamp with on/off and dimmer switches that you control with a smartphone application
- Jump feet first into the world of electronics, from learning Ohm's Law to working with basic components

You'll need the Bricktronics shield created for this book by Open Source Hardware kit maker Wayne and Layne, or you can build a breadboarded equivalent (see Chapter 10) for about $25 in parts.

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- Sales Rank: #765616 in Books
- Brand: Brand: Make
- Published on: 2012-12-10
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.75" h x .65" w x 8.00" l, 1.63 pounds
- Binding: Paperback
- 328 pages

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Editorial Review

About the Author

John Baichtal is a contributor to *MAKE magazine* and *Wired*'s GeekDad blog. He is the co-author of The *Cult of Lego* and author of *Hack This: 24 Incredible Hackerspace Projects from the DIY Movement*.

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