



## LEGO MINDSTORMS NXT Hacker's Guide (Electronics)

By Dave Prochnow

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**LEGO MINDSTORMS NXT Hacker's Guide (Electronics)** By Dave Prochnow

**Build and Program Over 20 Challenging Design Projects in Just 30 Minutes Each with the New Generation of LEGO® MINDSTORMS®**

More powerful and intuitive than ever, LEGO® MINDSTORMS® NXT is a new robotics toolset that enables robot enthusiasts and hobbyists to build and program all kinds of projects. The *LEGO® MINDSTORMS® NXT Hacker's Guide* explores this new generation of LEGO MINDSTORMS, providing a collection of projects, how-to expertise, insider tips, and over 500 illustrations to help readers become expert NXT hackers.

This cutting-edge guide describes new advances that make LEGO MINDSTORMS NXT such a great robotics resource. The book explains the all-new NXT intelligent brick...the interactive servo motors with rotation sensors that align speed for precise control...the ultrasonic sensor that allows robots to “see” by responding to movement...the improved light and touch sensors that let robots detect color and feel...and much more. *The LEGO® MINDSTORMS® NXT Hacker's Guide* features:

- Expert, insightful commentary by a member of the LEGO MINDSTORMS Developer Program
- A hands-on account of the new technologies and expanded sensor capabilities of LEGO MINDSTORMS NXT
- A collection of 10 hacking projects with step-by-step instructions for creating things ranging from solar power to ZigBee® technology to tank tread feet [“projects” appears twice.]
- A portfolio of 12 exciting design projects featuring R. Buckminster Fuller's Geodesic Dome, Rem Koolhaas' Seattle Central Library, and the world's first NXT wristwatch
- Complete disclosure about a “secret” game that is hidden inside every LEGO MINDSTORMS NXT kit
- An in-depth guide to the NXT programming language
- A special LEGO factory kit offer available only for readers of this book

## Inside This Groundbreaking NXT Reference

• Your First Robot • Stupid RCX Tricks • Save Your RIS • As Smart as a Brick • MOVE IT! With Servo Motors • Hmm, I Sense Something • Yes, But I Don't Know How to Program • Testing, Testing; Oh, Trouble Shoot • Katherine's Best Hacking Projects • Katherine's Design Fun House • NXT Programming Language Guide • NXT Elements • NXT Resources

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### Editorial Review

From the Back Cover

#### **Build and Program Over 20 Challenging Design Projects with the New Generation of LEGO® MINDSTORMS®**

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#### **YOU'LL LEARN ABOUT:**

- The all-new NXT intelligent brick
- The interactive servo motors with rotation sensors that align speed for precise control
- The ultrasonic sensor that allows robots to "see" by responding to movement
- The improved light and touch sensors that let robots detect color and feel

#### **LEGO® MINDSTORMS® NXT HACKER'S GUIDE FEATURES:**

- 20+ projects that can each be completed in just 30 minutes
- Expert, insightful commentary by a member of the LEGO® MINDSTORMS® Developer Program
- A hands-on account of the new technologies and expanded sensor capabilities of LEGO® MINDSTORMS® NXT
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#### About the Author

**Dave Prochnow** is an award-winning professional writer, editor, and contributor to numerous technical publications including *MAKE*, *Nuts and Volts*, and *SERVO*. He is the author of 26 nonfiction book titles for Addison-Wesley, F&W Publications, McGraw-Hill, and TAB Books; including the bestselling *PSP Hacks*, *Mods*, and *Expansions* (McGraw-Hill, 2006) and *The Official Robosapien Hacker's Guide* (McGraw-Hill, 2006). In 2001, Dave won the Maggie Award for writing the best how-to article in a consumer magazine.

## **Users Review**

### **From reader reviews:**

#### **Annette Carroll:**

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