



# LEGO MINDSTORMS NXT One-Kit Wonders: Ten Inventions to Spark Your Imagination

*By James Floyd Kelly, Matthias Paul Scholz, Christopher R. Smith, Martijn Boogaarts, Jonathan Daudelin, Eric D. Burdo, Laurens Valk, BlueTooth Kiwi*

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The creative minds behind The NXT STEP blog are back with a brand-new collection of innovative robots. Whether you're just getting started with LEGO robotics or have been building and programming robots for years, *LEGO MINDSTORMS NXT One-Kit Wonders* is packed with new and exciting techniques, advice, and robots that guarantee awesome results. And best of all, you'll only need one NXT Retail kit to build all ten of them!

*LEGO MINDSTORMS NXT One-Kit Wonders* will make it simple for you to construct even the most complex of these ten robots, all while you learn the ins and outs of the NXT kit. You'll learn to build and program:

- CandyPicker, a candy-picking robot with built-in generator and remote control
- PunchBot, a robot that you program using old-fashioned punchcards
- M, a robot that sorts your M&M candies by color
- NXT Dragster, a super-fast racecar that will take you all the way to the drag strip
- BobBot, a versatile skid-steer loader, equipped with a ball grabber or demolition claw
- RoboLock, a security system for your robots
- The Hand, a robotic replacement hand to protect you from those dangerous cleanup jobs, like picking up your brother's gym socks
- SPC, a robotic vehicle that can park itself between two objects using front-wheel drive
- GrabBot, a robot that finds, grabs, lifts and moves objects autonomously
- The Bike, a two-wheeled robot that can balance and steer

Armed with the knowledge you gain from this book, you'll be inventing your own amazing creations in no time.

**Requirements:** One LEGO MINDSTORMS NXT set (LEGO set #8527). Make sure you have this set, and *not* the NXT **2.0** set (#8547), which has different building elements.

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#### **D. Burdo, Laurens Valk, BlueTooth Kiwi Bibliography**

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### **Editorial Review**

#### About the Author

Jim Kelly was accepted into the LEGO MINDSTORMS Developer Program (MDP) in early 2006 and helped to beta test the LEGO MINDSTORMS NXT kit and software. He is a member of the MINDSTORMS Community Partners, a group that continues to assist LEGO with testing and growing the NXT product.

Matthias Scholz is a member of the LEGO Mindstorms Community Partners Program. His NXT-related Web site is extremely popular. He is also a frequent contributor to the well-known NXT blog, The NXT STEP. He majored in Mathematics at the University of Bayreuth and has held various positions in German IT enterprises.

Martijn Boogaarts was one of the initial organizers of LEGO WORLD. He has built several large demonstration models, including the Road-Plate-Laying-Machine, a working car factory (27 RCXs), and a Pinball machine.

Jonathan Daudelin has been competing in FLL since age 13. In 2007, his team won the First Place Robot Performance and First Place Innovative Robot awards at the World Festival after their robot achieved perfect scores in all three rounds. He is a contributor to The NXT Step blog and a co-author of "The LEGO MINDSTORMS NXT Idea Book" (No Starch) and "The NXT Robotics Competition Workbook" (self-published).

Laurens Valk is a member of the MINDSTORMS Community Partners, and one of his robots appears on the NXT 2.0 box. Valk is the author of *The LEGO MINDSTORMS NXT 2.0 Discovery Book*, a co-author of *LEGO MINDSTORMS NXT One-Kit Wonders* (both No Starch Press), and a contributor to The NXT Step Blog. He lives in the Netherlands where he studies Mechanical Engineering at Delft University of Technology.

Fay Rhodes is co-author of The LEGO MINDSTORMS NXT Idea Book (No Starch), a 2007 member of LEGO's MINDSTORMS Community Partners (MCP), and the only female contributor to the NXT Step

Blog.

## **Users Review**

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