The LEGO MINDSTORMS NXT 2.0 Discovery Book: A Beginner's Guide to Building and Programming Robots

By Laurens Valk

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Discover the many features of the LEGO MINDSTORMS NXT 2.0 set. *The LEGO MINDSTORMS NXT 2.0 Discovery Book* is the complete, illustrated, beginner's guide to MINDSTORMS that you've been looking for.

The crystal clear instructions in the *Discovery Book* will show you how to harness the capabilities of the NXT 2.0 set to build and program your own robots. Author and robotics instructor Laurens Valk walks you through the set, showing you how to use its various pieces, and how to use the NXT software to program robots. Interactive tutorials make it easy for you to reach an advanced level of programming as you learn to build robots that move, monitor sensors, and use advanced programming techniques like data wires and variables. You'll build eight increasingly sophisticated robots like the Strider (a six-legged walking creature), the CCC (a climbing vehicle), the Hybrid Brick Sorter (a robot that sorts by color and size), and the Snatcher (an autonomous robotic arm). Numerous building and programming challenges throughout encourage you to think creatively and to apply what you've learned as you develop the skills essential to creating your own robots.

Requirements: One LEGO MINDSTORMS NXT 2.0 set (#8547)

Features

- A complete introduction to LEGO MINDSTORMS NXT 2.0
- Building and programming instructions for eight innovative robots
- 50 sample programs and 72 programming challenges (ranging from easy to hard) encourage you to explore newly learned programming techniques
- 15 building challenges expand on the robot designs and help you develop ideas for new robots

Who is this book for?

This is a perfect introduction for those new to building and programming with the LEGO MINDSTORMS NXT 2.0 set. The book also includes intriguing robot designs and useful programming tips for more seasoned MINDSTORMS builders.

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Editorial Review

Review
"The LEGO MINDSTORMS NXT 2.0 Discovery Book should come with every MINDSTORMS NXT 2.0 Kit." --GeekDad, Wired.com

About the Author

Laurens Valk is a member of the MINDSTORMS Community Partners who help test and develop new NXT products. He has been inventing robots with the MINDSTORMS NXT sets since their introduction, and one of his robot designs appears on the NXT 2.0 packaging. Valk is a co-author of *LEGO MINDSTORMS NXT One-Kit Wonders* (No Starch Press) and a contributor to The NXT Step Blog (thenxtstep.blogspot.com). He lives in the Netherlands where he studies Mechanical Engineering at Delft University of Technology.

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