



The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots

By Laurens Valk

Download now

Read Online ➔

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk

LEGO MINDSTORMS has changed the way we think about robotics by making it possible for anyone to build real, working robots. The latest MINDSTORMS set, EV3, is more powerful than ever, and *The LEGO MINDSTORMS EV3 Discovery Book* is the complete, beginner-friendly guide you need to get started.

Begin with the basics as you build and program a simple robot to experiment with motors, sensors, and EV3 programming. Then you'll move on to a series of increasingly sophisticated robots that will show you how to work with advanced programming techniques like data wires, variables, and custom-made programming blocks. You'll also learn essential building techniques like how to use beams, gears, and connector blocks effectively in your own designs.

Master the possibilities of the EV3 set as you build and program:

- The EXPLOR3R, a wheeled vehicle that uses sensors to navigate around a room and follow lines
- The FORMULA EV3 RACE CAR, a streamlined remote-controlled race car
- ANTY, a six-legged walking creature that adapts its behavior to its surroundings
- SK3TCHBOT, a robot that lets you play games on the EV3 screen
- The SNATCH3R, a robotic arm that can autonomously find, grab, lift, and move the infrared beacon
- LAVA R3X, a humanoid robot that walks and talks

More than 150 building and programming challenges throughout encourage you to think creatively and apply what you've learned to invent your own robots. With *The LEGO MINDSTORMS EV3 Discovery Book* as your guide, you'll be building your own out-of-this-world creations in no time!

Requirements: One LEGO MINDSTORMS EV3 set (LEGO SET #31313)

 **Download** [The LEGO MINDSTORMS EV3 Discovery Book \(Full Color ...pdf](#)

 **Read Online** [The LEGO MINDSTORMS EV3 Discovery Book \(Full Col ...pdf](#)

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots

By Laurens Valk

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk

LEGO MINDSTORMS has changed the way we think about robotics by making it possible for anyone to build real, working robots. The latest MINDSTORMS set, EV3, is more powerful than ever, and *The LEGO MINDSTORMS EV3 Discovery Book* is the complete, beginner-friendly guide you need to get started.

Begin with the basics as you build and program a simple robot to experiment with motors, sensors, and EV3 programming. Then you'll move on to a series of increasingly sophisticated robots that will show you how to work with advanced programming techniques like data wires, variables, and custom-made programming blocks. You'll also learn essential building techniques like how to use beams, gears, and connector blocks effectively in your own designs.

Master the possibilities of the EV3 set as you build and program:

- The EXPLOR3R, a wheeled vehicle that uses sensors to navigate around a room and follow lines
- The FORMULA EV3 RACE CAR, a streamlined remote-controlled race car
- ANTY, a six-legged walking creature that adapts its behavior to its surroundings
- SK3TCHBOT, a robot that lets you play games on the EV3 screen
- The SNATCH3R, a robotic arm that can autonomously find, grab, lift, and move the infrared beacon
- LAVA R3X, a humanoid robot that walks and talks

More than 150 building and programming challenges throughout encourage you to think creatively and apply what you've learned to invent your own robots. With *The LEGO MINDSTORMS EV3 Discovery Book* as your guide, you'll be building your own out-of-this-world creations in no time!

Requirements: One LEGO MINDSTORMS EV3 set (LEGO SET #31313)

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk Bibliography

- Sales Rank: #12476 in Books
- Brand: imusti
- Published on: 2014-06-13
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 8.00" w x 1.00" l, 2.40 pounds
- Binding: Paperback
- 396 pages

 **[Download](#)** [The LEGO MINDSTORMS EV3 Discovery Book \(Full Color ...pdf](#)

 **[Read Online](#)** [The LEGO MINDSTORMS EV3 Discovery Book \(Full Col ...pdf](#)

Download and Read Free Online The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk

Editorial Review

From School Library Journal

Gr 6 Up—A tome for fans of robotics and LEGO Mindstorms EV3 Kits. Hyper-detailed instructions—with full color, easy-to-read and understand illustrations—help budding enthusiasts navigate EV3 Kits with clear language and step-by-step directions. Readers learn the basics of assembling a simple robot before being introduced to various programming tricks to be used on the EV3 Brick, the colloquial term for the Mindstorms mini-computer. Be forewarned that in order to take full advantage of the programming functionality of the kit, including the ability to create and edit programs, users must have a computer to connected to their EV3 Brick (though basic programming on the EV3 Brick can be done without one). Each chapter contains several short challenges, dubbed "discoveries," which are cleverly accompanied by a legend: whimsical gear wheels represent the estimated amount of building time; tiny Microsoft Windows-esque blocks show the expected level of programming expertise; and a small clock estimates the length of time it should take to solve the challenge. Later chapters describe building intricate robots with fun objectives: a racing robot, ANTY (a robotic ant), and the SNATCH3R (complete with a robotic arm that grabs). Readers who are intimidated by the discoveries can skip these and instead focus on the building projects and the programming tricks that do not involve the use of a computer. The size, advanced vocabulary, and organization of the book evokes a science or physics textbook, which is warranted due to the amount of complex and detailed programming information contained within. However, colorful images keep it from feeling too academic. **VERDICT** This book will find a home in libraries with makerspaces and/or those that offer robotics or science clubs, LEGO teams, or other STEM-oriented groups.—Amy M. Laughlin, Darien Library, CT

About the Author

Laurens Valk is a member of the MINDSTORMS Community Partners, a select group of MINDSTORMS enthusiasts who help test and develop new MINDSTORMS products. One of his robot designs is featured on the EV3 packaging as a bonus project. His previous work, the best-selling LEGO MINDSTORMS NXT 2.0 Discovery Book, introduced tens of thousands of beginners worldwide to the powerful world of LEGO MINDSTORMS robotics. He blogs about robots at robotsquare.com.

Users Review

From reader reviews:

Vera Gates:

Reading can called head hangout, why? Because when you find yourself reading a book mainly book entitled The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots your brain will drift away trough every dimension, wandering in each and every aspect that maybe unidentified for but surely will become your mind friends. Imaging every single word written in a reserve then become one contact form conclusion and explanation that will maybe you never get just before. The The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots giving you another experience more than blown away your thoughts but also giving you useful info for your better life on this era. So now let us present to you the relaxing pattern is your body and mind is going to be pleased when you are finished studying it, like winning a. Do you want to try this extraordinary paying spare time activity?

James Helm:

Do you like reading a book? Confuse to looking for your preferred book? Or your book was rare? Why so many concern for the book? But just about any people feel that they enjoy regarding reading. Some people likes studying, not only science book but in addition novel and The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots or maybe others sources were given understanding for you. After you know how the great a book, you feel need to read more and more. Science reserve was created for teacher as well as students especially. Those publications are helping them to add their knowledge. In other case, beside science publication, any other book likes The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots to make your spare time far more colorful. Many types of book like this one.

Edwin Ashford:

A lot of book has printed but it is unique. You can get it by online on social media. You can choose the best book for you, science, comedy, novel, or whatever through searching from it. It is referred to as of book The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots. You can add your knowledge by it. Without leaving behind the printed book, it can add your knowledge and make you happier to read. It is most essential that, you must aware about e-book. It can bring you from one place to other place.

Gene Green:

What is your hobby? Have you heard that will question when you got pupils? We believe that that query was given by teacher to the students. Many kinds of hobby, All people has different hobby. So you know that little person such as reading or as examining become their hobby. You have to know that reading is very important in addition to book as to be the thing. Book is important thing to increase you knowledge, except your teacher or lecturer. You see good news or update about something by book. Many kinds of books that can you choose to use be your object. One of them is this The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots.

**Download and Read Online The LEGO MINDSTORMS EV3
Discovery Book (Full Color): A Beginner's Guide to Building and
Programming Robots By Laurens Valk #0EK2TXAP9J5**

Read The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk for online ebook

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk Free PDF download, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk books to read online.

Online The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk ebook PDF download

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk Doc

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk Mobipocket

The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk EPub

0EK2TXAP9J5: The LEGO MINDSTORMS EV3 Discovery Book (Full Color): A Beginner's Guide to Building and Programming Robots By Laurens Valk