



Exploring LEGO Mindstorms EV3: Tools and Techniques for Building and Programming Robots

Eun Jung Park

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The essential guide to building and programming LEGO EV3 interactive robots

Exploring LEGO Mindstorms: Tools and Techniques for Building and Programming Robots is the complete guide to getting the most out of your LEGO Mindstorms EV3. Written for hobbyists, young builders, and master builders alike, the book walks you through fundamentals of robot design, construction, and programming using the Mindstorms apparatus and LEGO TECHNIC parts. Tap into your creativity with brainstorming techniques, or follow the plans and blueprints provided on the companion website to complete projects ranging from beginner to advanced.

The book begins with the basics of the software and EV3 features then lets you get to work quickly by using projects of increasing complexity to illustrate the topics at hand. Plenty of examples are provided throughout every step of the process, and the companion website features a blog where you can gain the insight and advice of other users. *Exploring LEGO Mindstorms* contains building and programming challenges written by a recognized authority in LEGO robotics curriculum, and is designed to teach you the fundamentals rather than have you follow a "recipe."

- Get started with robot programming with the starter vehicle, Auto-Driver
- Explore the features of the EV3 brick, a programmable brick
- Design robot's actions using Action Blocks
- Incorporate environmental sensors using Infrared, Touch, and Color sensors
- Expand the use of data in your program by using data wires with Sensor Blocks
- Process data from the sensors using Data Operations Blocks
- Using Bluetooth and WiFi with EV3
- Build unique EV3 robots that each presents different functions: the Spy Rabbit, a robot that can react to its surroundings; a Sea Turtle robot, Mr. Turto; the Big Belly Bot, a robot that eats and poops; and a Robotic Puppy Guapo
- Discover ideas and practices that will help you to develop your own method of designing and programming EV3 robots

The book also provides extensive programming guidance, from the very basics of block programming through data wiring. You'll learn robotics skills to help with your own creations, and can likely ignite a lasting passion for innovation. *Exploring LEGO Mindstorms* is the key to unlocking your EV3 potential.

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Vincent Ashworth:

The actual book Exploring LEGO Mindstorms EV3: Tools and Techniques for Building and Programming Robots will bring one to the new experience of reading a book. The author style to spell out the idea is very unique. When you try to find new book you just read, this book very ideal to you. The book Exploring LEGO Mindstorms EV3: Tools and Techniques for Building and Programming Robots is much recommended to you to read. You can also get the e-book from your official web site, so you can more easily to read the book.

Alfredo Dunn:

Playing with family in a park, coming to see the ocean world or hanging out with good friends is thing that usually you might have done when you have spare time, after that why you don't try matter that really opposite from that. Just one activity that make you not sense tired but still relaxing, trilling like on roller coaster you are ride on and with addition associated with. Even you love Exploring LEGO Mindstorms EV3: Tools and Techniques for Building and Programming Robots, you may enjoy both. It is excellent combination right, you still wish to miss it? What kind of hangout type is it? Oh seriously its mind hangout guys. What? Still don't buy it, oh come on its called reading friends.

Jennifer Nava:

The book untitled Exploring LEGO Mindstorms EV3: Tools and Techniques for Building and Programming Robots contain a lot of information on it. The writer explains your ex idea with easy method. The language is very clear and understandable all the people, so do not necessarily worry, you can easy to read that. The book was published by famous author. The author will bring you in the new period of time of literary works. It is possible to read this book because you can please read on your smart phone, or device, so you can read the book within anywhere and anytime. If you want to buy the e-book, you can start their official web-site and order it. Have a nice learn.

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