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# The LEGO MINDSTORMS EV3 Laboratory: Build, Program, And Experiment With Five Wicked Cool Robots!



## Synopsis

The LEGO® MINDSTORMS® EV3 set offers so many new and exciting features that it can be hard to know where to begin. Without the help of an expert, it could take months of experimentation to learn how to use the advanced mechanisms and numerous programming features. In The LEGO MINDSTORMS EV3 Laboratory, author Daniele Benedettelli, robotics expert and member of the elite LEGO MINDSTORMS Expert Panel, shows you how to use gears, beams, motors, sensors, and programming blocks to create sophisticated robots that can avoid obstacles, walk on two legs, and even demonstrate autonomous behavior. You'll also dig into related math, engineering, and robotics concepts that will help you create your own amazing robots. Programming experiments throughout will challenge you, while a series of comics and countless illustrations inform the discussion and keep things fun. As you make your way through the book, you'll build and program five wicked cool robots: ROV3R, a vehicle you can modify to do things like follow a line, avoid obstacles, and even clean a room; WATCHGOOZ3, a bipedal robot that can be programmed to patrol a room using only the Brick Program App (no computer required!); SUP3R CAR, a rear-wheel-drive armored car with an ergonomic two-lever remote control; SENTIN3L, a walking tripod that can record and execute color-coded sequences of commands; T-R3X, a fearsome bipedal robot that will find and chase down prey. With The LEGO MINDSTORMS EV3 Laboratory as your guide, you'll become an EV3 master in no time. Requirements: One LEGO® MINDSTORMS EV3 set (LEGO SET #31313)

## Book Information

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## Customer Reviews

I use dozens of mindstorm projects in our High School Robotics tutorials, and this is by far the most advanced, complete and innovative, and by FAR the most clearly illustrated. I tried out the projects at an advanced teach the teachers conference (also using Blankenships fine book: Robot's in the Classroom), which we buy in quantity, and even MS beginners "got" the pictures immediately. The projects worked great with few glitches, and typical of No Starch, the code and diagrams were well edited and functional right out of the book. The author has a "save you money" attitude, and tries to show processor block techniques that don't require a laptop to execute, but also includes PC interfaces (see page references below) in advanced projects. As you probably know, you DO need the \$350 Lego Mindstorms kit to conduct these experiments and build these projects! (For reference it is a great deal on , it is here: LEGO Mindstorms EV3 31313). This is a PROFESSIONAL level robotics kit, but one that even HS kids can enjoy. Most books like this concentrate either on code or mechanics, and few do both well, let alone theory. I mean, even at over 400 pages and with 5 real projects, there is a LOT to cover, especially since this author really likes autonomous designs and working on deep (and custom!) details, like math and software that turn gear activators into transmissions via math (functions/code).

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