



# Instant LEGO MINDSTORMS EV3

*Gary Garber*

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## In Detail

LEGO Mindstorm is more than just a toy. With a multitude of gears, pins, and beams, you can build fantastic, complex designs. The programming brick is Linux-based, and with dozens of available sensors, it allows you to make incredibly sophisticated robots. Instant LEGO Mindstorm EV3 goes beyond the example projects that come with the box and helps you to produce a more advanced and functional robot.

"Instant LEGO Mindstorm EV3" is a practical guide that shows you how to advance from the basic lessons included in your EV3 kit, combine core programming commands, and implement tested design principles when building your robot. You will build a basic robot and download a program to make the robot move. You will also write several increasingly complex programs to add functionality to the robot and use a proportional algorithm to track a line with an optical sensor.

"Instant LEGO Mindstorm EV3" will teach you how to make a LEGO Mindstorm EV3 robot that can navigate and interact with its environment using sensors. You will first be guided through how to make your robot interact with its environment using touch sensors. You will then program the robot to navigate and change direction using a gyro sensor. Next, using a proportional algorithm, your robot will maintain a given distance to a stationary or moving object. You will then be shown how to change parameters using on-board buttons and finally how to use an optical sensor to track a line.

"Instant LEGO Mindstorm EV3" is full of step-by-step instructions and illustrations designed to help you build a robot with ease.

## Approach

Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. A concise guide full of step-by-step recipes to teach you how to build and program an advanced robot.

## Who this book is for

"Instant LEGO Mindstorm EV3" is for both the adult tinkerer who has never touched LEGO before and the experienced LEGO engineer who has evolved from Mindstorm NXT to EV3. If you are interested in entering or advising students in robot competitions such as the FIRST LEGO League, the World Robot Olympiad, or RoboGames, then this book is a must for you. Even if you haven't purchased your Mindstorm EV3 kit yet, this book will give you a good introduction to the platform.

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