



# THE LEGO® MINDSTORMS® EV3 DISCOVERY BOOK

a beginner's guide to building and  
programming robots

laurens valk



# Lego Mindstorms Evdiscovery Book

**Aaron Maurer**



## **Lego Mindstorms Evdiscovery Book:**

**The LEGO MINDSTORMS NXT 2.0 Discovery Book** Laurens Valk, 2010-04-01 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

**The LEGO MINDSTORMS EV3 Discovery Book** Laurens Valk, 2014-06-14 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** Laurens Valk,2014-06-14 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     **Learning LEGO MINDSTORMS EV3** Gary Garber,2015-01-27 This book is for the hobbyists builders and programmers who want to build and control their very own robots beyond the capabilities provided with the LEGO EV3 kit You will need the LEGO MINDSTORMS EV3 kit for this book The book is compatible with both the Home Edition and the Educational Edition of the kit You should already have a rudimentary knowledge of general programming concepts and will need to have gone through the basic introductory material provided by the official LEGO EV3 tutorials     [The LEGO MINDSTORMS Robot Inventor Activity Book](#) Daniele Benedettelli,2021-09-21 An introduction to the LEGO Mindstorms Robot Inventor Kit through seven engaging projects With its amazing assortment of bricks motors and smart sensors the LEGO MINDSTORMS Robot Inventor set opens the door to a physical meets digital world The LEGO MINDSTORMS Robot Inventor Activity Book expands that world into an entire universe of incredibly fun uniquely interactive robotic creations Using the Robot Inventor set and a device that can run the companion app you ll learn how to build bots beyond your imagination from a magical monster that gobbles up paper and answers written questions to a remote controlled transformer car that you can drive steer and shape shift into a walking humanoid robot at the press of a button Author and MINDSTORMS master Daniele Benedettelli a robotics expert takes a project based approach as he leads you through an increasingly sophisticated collection of his most captivating robot models chapter by chapter Each project features illustrated step by step building instructions as well as detailed explanations on programming your robots through the MINDSTORMS App no coding experience required As

you build and program an adorable pet turtle an electric guitar that lets you shred out solos a fully functional whiz bang pinball machine and more you ll discover dozens of cool building and programming techniques to apply to your own LEGO creations from working with gears and motors to smoothing out sensor measurement errors storing data in variables and lists and beyond By the end of this book you ll have all the tools talent and inspiration you need to invent your own LEGO MINDSTORMS robots

**The Unofficial LEGO Mindstorms NXT Inventor's Guide** David J. Perdue,2008 The LEGO Mindstorms NXT set is a very powerful robotics toolkit but it lacks a detailed users guide This is the users guide that every Mindstorms owner needs Includes a Mindstorms NXT Brickopedia

**Lego Mindstorms EV3 , Smart Robotics with LEGO MINDSTORMS Robot Inventor** Aaron Maurer,2021-05-07 Discover how to use the LEGO MINDSTORMS Inventor kit and boost your confidence in robotics Key Features Gain confidence in building robots using creative designs Learn advanced robotic features and find out how to integrate them to build a robot Work with the block coding language used in robotics software in a practical way Book DescriptionLEGO MINDSTORMS Robot Inventor is the latest addition to the LEGO MINDSTORMS theme It features unique designs that you can use to build robots and also enable you to perform activities using the robot inventor application You ll begin by exploring the history of LEGO MINDSTORMS and then delve into various elements of the Inventor kit Moving on you ll start working on different projects which will prepare you to build a variety of smart robots The first robotic project involves designing a claw to grab objects and helps you to explore how a smart robot is used in everyday life and in industry The second project revolves around building a working guitar that can be played and modified to meet the needs of the user As you advance you ll explore the concept of biomimicry as you discover how to build a scorpion robot In addition to this you ll also work on a classic robotic challenge by building a sumobot Throughout the book you ll come across a variety of projects that will provide you with hands on experience in building creative robots such as building a Dragster Egg Decorator and Plankton from Spongebob Squarepants By the end of this LEGO book you ll have got to grips with the concepts behind building a robot and also found creative ways to integrate them using the application based on your creative insights and ideas What you will learn Discover how the Robot Inventor kit works and explore its parts and the elements inside them Delve into the block coding language used to build robots Find out how to create interactive robots with the help of sensors Understand the importance of real world robots in today s landscape Recognize different ways to build new ideas based on existing solutions Design basic to advanced level robots using the Robot Inventor kit Who this book is for This book is for robot enthusiasts LEGO lovers hobbyists educators students and anyone looking to learn about the new LEGO Robot Inventor kit This book is designed to go beyond the basic build through to intermediate and advanced builds and enables you to add your personal flair to the builds and codes

**Lego Mindstorms Ev3 Essentials** Abid H. Mujtaba,2014-10-31 If you are a robot enthusiast who wants to quickly get the most out of Lego Mindstorms EV3 this is the book for you Prior programming experience is useful to get the most out of this book but not necessary *The LEGO*

*MINDSTORMS EV3 Idea Book* Yoshihito Isogawa, 2014-11-07 The LEGO MINDSTORMS EV3 Idea Book explores dozens of creative ways to build amazing mechanisms with the LEGO MINDSTORMS EV3 set Each model includes a list of the required parts minimal text and colorful photographs from multiple angles so you can re create it without the need for step by step instructions You ll learn to build cars with real suspension steerable crawlers ball shooters grasping robotic arms and other creative marvels Each model demonstrates simple mechanical principles that you can use as building blocks for your own creations Best of all every part you need to build these machines comes in one LEGO set 31313 **LEGO MINDSTORMS NXT One-Kit Wonders** James Floyd Kelly, Matthias Paul Scholz, Christopher R. Smith, Martijn Boogaarts, Jonathan Daudelin, Eric D. Burdo, Laurens Valk, BlueToothKiwi, 2009 Furnishes detailed step by step instructions for designing constructing and programming ten innovative robots including the Grabbot Dragster and The Hand with detailed guidelines on how a NXT program works and its applications in the world of robotics Original All Users **The LEGO Mindstorms NXT Idea Book** Martijn Boogaarts, 2007 If you re serious about having fun with LEGO robotics you ve come to the right place The team behind The NXT STEP blog the authoritative online source for MINDSTORMS NXT information and advice has packaged its considerable skills and experience in this book Inside you ll find some of the team s best ideas for creating cool and sophisticated models including instructions for eight robots you can build yourself Follow along with the MINDSTORMS NXT experts as they explain the fundamentals of programming and design accompanied by CAD style drawings and an abundance of screenshots that make it easy for you to master the MINDSTORMS NXT system You ll get an overview of the NXT parts beams sensors axles gears and so on and clear instructions for combining them to build and program working robots The LEGO MINDSTORMS NXT Idea Book delves into the complexities of the NXT programming language NXT G and offers tips for designing and programming robots using Bluetooth creating an NXT remote control troubleshooting and much more Here are just a few of the robots you ll learn to build in The LEGO MINDSTORMS NXT Idea Book RaSPy a robot that plays Rock Scissors Paper 3D PhotoBot a robot that will help you take photographs that can be converted into 3D images Slot Machine complete with flashing lights and a lever ScanBot a robot that scans black and white pictures and displays the images on the NXT s LCD Beach Buggy Chair a roving rambling robot CraneBot a crane like grabbing robot LEGO fans of all ages will find this book to be an ideal jumping off point for doing more with MINDSTORMS NXT The only ingredient you need to add is your imagination **The Art of LEGO MINDSTORMS EV3 Programming** Terry Griffin, 2014-10-01 With its colorful block based interface The LEGO MINDSTORMS EV3 programming language is designed to allow anyone to program intelligent robots but its powerful features can be intimidating at first The Art of LEGO MINDSTORMS EV3 Programming is a full color beginner friendly guide designed to bridge that gap Inside you ll discover how to combine core EV3 elements like blocks data wires files and variables to create sophisticated programs You ll also learn good programming practices memory management and helpful debugging strategies general skills that will be relevant

to programming in any language All of the book s programs work with one general purpose test robot that you ll build early on As you follow along you ll program your robot to React to different environments and respond to commands Follow a wall to navigate a maze Display drawings that you input with dials sensors and data wires on the EV3 screen Play a Simon Says style game that uses arrays to save your high score Follow a line using a PID type controller like the ones in real industrial systems The Art of LEGO MINDSTORMS EV3 Programming covers both the Home and Education Editions of the EV3 set making it perfect for kids parents and teachers alike Whether your robotics lab is the living room or the classroom this is the complete guide to EV3 programming that you ve been waiting for Requirements One LEGO MINDSTORMS EV3 Home OR Education set 31313 OR 45544     The LEGO MINDSTORMS Robot Inventor Idea Book Yoshihito Isogawa,2021-09-21 A follow up to the best selling LEGO Technic Idea Book series by master builder and LEGO luminary Yoshihito Isogawa readers learn to create their own robots from the LEGO MINDSTORMS Robot Inventor Set If you ve had your fun building programmable intelligent creations with the LEGO MINDSTORMS Robot Inventor set it s time to take your bot building to the next level With over 125 new models the LEGO MINDSTORMS Robot Inventor Idea Book will unleash your imagination and open up limitless possibilities for unique robotic designs You ll learn how to build basic mechanisms with motors and sensors robots that can walk or drive themselves and practical tools for lifting opening doors drawing and even launching projectiles Then bring them all to life with the LEGO MINDSTORMS Robot Inventor App which lets you program your bots to perform tasks and missions Each model is paired with an illustrated list of parts and multi angled color photographs so you can easily reproduce the projects without the need for step by step instructions Best of all you ll also be inspired to combine various mechanisms into your own interactive inventions toys cars games and more To build the book s models all you need is the LEGO MINDSTORMS Robot Inventor set 51515 and a smart device that can run the MINDSTORMS App     **Dave Baum's Definitive Guide To LEGO MINDSTORMS** Dave Baum,2002-11-11 The second edition of Baum s Definitive Guide to LEGO MINDSTORMS has been updated for RIS 2 0     *LEGO Mindstorm Masterpieces* Miguel Agullo,2003-03-30 In LEGO Mindstorm Masterpieces some of the world s leading LEGO Mindstorms inventors share their knowledge and development secrets The unique style of this book will allow it to cover an incredibly broad range of topics in unparalleled detail Chapters within the book will include detailed discussions of the mechanics that drive the robot and also provide step by step construction diagrams for each of the robots This is perfect book for LEGO hobbyists looking to take their skills to the next level whether they build world class competitive robots or just like to mess around for the fun of it For experienced users of LEGO Mindstorms LEGO Mindstorms Masterpiece is composed of three fundamental sections Part One A review of the advanced robot building concepts and theories Part Two Step by step building instructions for a series of complex models The companion programming code is included along with in depth explanations of concepts needed for the specific models Robots include Line Followers Biped Stair and Wall Climbers a Joystick Controlled Cannon a Robotic Game Player Plant

Waterer and a Drink Mixer Part Three Ideas for modifying the building instructions by expanding the pieces and kits Topics covered

- 1 Behavior This section includes robots designed to interact with the environment or with other robots Behavior is the key word as the robots are designed to behave in some specific way and all the technical details and implementations are secondary to this main goal
- 2 Motion The projects in this category are aimed at solving some specific motion problem The focus of these robots is on the mechanical techniques rather than on software
- 3 Interaction These projects allow the reader to build robots for the purpose of interacting with the user by playing games or responding to user commands in real time
- 4 Automation Opposite of the previous category this one hosts robots designed to perform totally automated operations These projects will build robots able to complete tasks without human intervention
- 5 Calculus The most abstract of the sections contain robots with minimum knowledge of the external world Pneumatic ALUs and Turning machines are fully explained

Advanced users need inspiration too Advanced projects with suggestions for enhancements and improvements make the explanations of the theories and physics of the robots as well as the complete building instructions make this book extremely useful to readers long after the building of the robots has been completed Written by the DaVincis of LEGO and other highly regarded LEGO personalities This experienced authoring team is assembled of highly respected and visible superstars in the LEGO community Proven success in the LEGO MINDSTORMS market Syngress has already had a hit with the bestselling book *Building Robots with LEGO MINDSTORMS* [Lego Mindstorms Mechatronics](#) Don Wilcher, 2003 Focuses on hot technology topics electronics embedded systems object oriented technology software development and robotics This book also includes projects for each concept including a LEGO camera for the remote control vision chapter an interface for a robotic warning system and a tele operated robot

**The LEGO MINDSTORMS NXT Idea Book** Martijn Boogaarts, Jonathan Daudelin, Brian Davis, James Kelly, Lou Morris, Fay Rhodes, Rick Rhodes, Matthias Scholz, Christopher Smith, Rob Torok, 2007 This book's chapters on programming and design CAD style drawings and abundance of screenshots make it easy for the reader to master the LEGO MINDSTORMS NXT kit and to build and program nine example robots Chapters cover using the NXT programming language NXT G as well as troubleshooting design software sensors Bluetooth even how to create a NXT remote control

**The LEGO BOOST Activity Book** Daniele Benedettelli, 2018-11-27 At last fans of the LEGO BOOST robot building kit have the learning resource they've been missing Enter *The LEGO BOOST Activity Book* a full color guide that will help readers learn how to build and code LEGO creations that move explore their environment grab and lift objects and more The LEGO BOOST kit lets younger builders create fun multifunctional robots by combining bricks with code but it doesn't come with a manual With the help of this complete guide to the LEGO BOOST set you'll be on your way to building and programming BOOST robots in no time You'll begin your exploration by building a basic rover robot called MARIO to help you learn the fundamentals of the BOOST programming environment Next you'll add features to your rover to control its movement and make it repeat actions and react to colors and sounds Once you've learned



some programming basics you'll learn how to program your robot to do things like follow lines on the ground scan its environment to decide where to go and even play darts As final projects you'll create two complete robots BrickPecker to help you organize your bricks and CYBOT a robot that talks shoots objects and executes voice commands As you advance through the book optional lessons aim to deepen your understanding of basic robotics concepts Brain BOOSTer sections let you dig into the math and engineering behind your builds while a host of experiments seek to test your skills and encourage you to do more with your robots With countless illustrations extensive explanations and a wealth of coding examples to guide you The LEGO BOOST Activity Book is sure to take you from beginning builder to robotics whiz and give your robot building brain that needed boost

*Winning LEGO MINDSTORMS Programming* James Trobaugh, Mannie Lowe, 2012-12-22

Winning LEGO MINDSTORMS Programming is your ticket to successfully programming for fun and competition with LEGO MINDSTORMS and the NXT G programming language commonly used in FIRST LEGO League events The book is a companion title to author James Trobaugh's acclaimed book on physical robot design *Winning Design* This new book focuses squarely on the programming side of working with MINDSTORMS Together the two books put you on a rock solid foundation for creating with LEGO MINDSTORMS whether for fun at home or in competition with a team

Winning LEGO MINDSTORMS Programming sets the stage by emphasizing the importance of up front planning and thinking about the challenge to be met Learn to evaluate possible solutions by sanity testing their logic before you put the effort into actually writing the code Then choose your best option and write the code applying the techniques in this book Take advantage of language features such as MyBlocks to enhance reliability and create easy to debug code Manage your code as you change and improve it so that you can trace what you've done and fall back if needed Avoid common programming pitfalls Work powerfully with teammates to conquer competition challenges of all types Provides solid techniques similar to those used by professional programmers and optimized for the LEGO MINDSTORMS platform Addresses key tasks important to competition such as line detection line following squaring of corners motor stall detection and more Compliments *Winning Design* by tackling the programming side of competition

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## **Lego Mindstorms Evdiscovery Book Introduction**

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