

# BASIC ROBOT BUILDING

with  
**LEGO®**  
**Mindstorms®**  
**NXT 2.0**



**John Baichtal**



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# Basic Robot Building With Lego Mindstorms Nxt

**Martijn Boogaarts, Jonathan  
Daudelin, Brian Davis, James Kelly, Lou  
Morris, Fay Rhodes, Rick  
Rhodes, Matthias Scholz, Christopher  
Smith, Rob Torok**

## **Basic Robot Building With Lego Mindstorms Nxt :**

*Basic Robot Building With LEGO Mindstorms NXT 2.0* John Baichtal,James Floyd Kelly,2013-01-07 Basic Robot Building with LEGO Mindstorms NXT 2 0 ABSOLUTELY NO EXPERIENCE NEEDED Learn LEGO Mindstorms NXT 2 0 from the ground up hands on in full color Ever wanted to build a robot Now s the time LEGO Mindstorms NXT 2 0 is the technology and this is the book You can do this even if you ve never built or programmed anything Don t worry about where to begin start right here John Baichtal explains everything you need to know one ridiculously simple step at a time and shows you every key step with stunningly clear full color photos You won t just learn concepts you ll put them to work in three start to finish projects including three remarkable bots you can build right this minute with zero knowledge of programming or robotics It s going to be simple and it s going to be fun All you need is in the box and in this book Unbox your LEGO Mindstorms NXT 2 0 set and discover exactly what you ve got Build a Backscratching Bot immediately Connect the NXT Intelligent Brick to your computer Windows or Mac Navigate the Brick s menus and upload programs Start writing simple new programs painlessly Build the Clothesline Cruiser a robot that travels via rope Program your robot s movements Learn to create stronger tougher models Help your robot sense everything from distance and movement to sound and color Build a miniature tank treaded robot that knows how to rebound Write smarter programs by creating your own programming blocks Discover what to learn next and which additional parts you might want to buy JOHN BAICHTAL is a contributor to MAKE magazine and Wired s GeekDad blog He is the co author of The Cult of Lego No Starch and author of Hack This 24 Incredible Hackerspace Projects from the DIY Movement Que Most recently he wrote Make Lego and Arduino Projects for MAKE collaborating with Adam Wolf and Matthew Beckler He lives in Minneapolis Minnesota with his wife and three children

**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 **Unofficial LEGO MINDSTORMS NXT 2.0 Inventor's Guide** David J. Perdue, 2011 Helps readers harness the capabilities of the LEGO MINDSTORMS NXT set and effectively plan build and program NXT 2.0 robots offering an overview of the pieces in the NXT set practical building techniques instruction on the official NXT G programming language and step by step instructions for building programming and testing a variety of sample robots Original **LEGO MINDSTORMS NXT Thinking Robots** Daniele Benedettelli, 2010 Furnishes step by step instructions for designing constructing and programming two robots that think the TTT Tickler and the One Armed Wonder **LEGO MINDSTORMS NXT One Kit Wonders** James Kelly, Matthias Scholz, Christopher Smith, Martijn Boogaarts, Jonathan Daudelin, Eric Burdo, Laurens Valk, Blue ToothKiwi, Fay Rhodes, 2008 LEGO MINDSTORMS NXT One Kit Wonders is packed with building and programming instructions for ten innovative robots The book dives headfirst into the creative thrill of robot building with models like Grabbot Dragster and The Hand Step by step building instructions make it simple to construct even the most complex models while the detailed programming instructions teach you how a NXT program really works **Build Your Own Teams of Robots with LEGO® Mindstorms® NXT and Bluetooth®** Cameron Hughes, Tracey Hughes, Trevor Watkins, Bob Kramer, 2013-02-22 CREATE YOUR OWN SYNCHRONIZED ROBOT ARMY PLAN DESIGN ASSEMBLE AND PROGRAM ROBOT SQUADS THAT COMMUNICATE and cooperate with each other to accomplish together what they can't do individually Build Your Own Teams of Robots with LEGO MINDSTORMS NXT and Bluetooth shows you how to construct a team capability matrix TCM and use the Bluetooth Robotic Oriented Network BRON so your robot teams can share sensors actuators and effectors motor power and programs Find out how the Bluetooth communications protocol works and how to program Bluetooth in NXT G NXC LabVIEW and Java Learn how to send and receive Bluetooth messages data and commands among robots between a robot and a computer and between an Android smart phone and a robot Through teamwork your robots will be able to accomplish amazing feats THE STEP BY STEP ROBOT TEAM PROJECTS IN THE BOOK INCLUDE Crime Scene Investigation Robot Team Robot Convoy Rubik's Cube Solver LEARN HOW TO Coordinate multiple robots to work together as a team to perform tasks Combine two or more microcontrollers to make a single multicontroller multi agent robot Take advantage of sensor and actuator capabilities in a team environment Establish goals and teamwork strategies for your robots Control your robot teams with NXT G Bluetooth bricks and LabVIEW for NXT Bluetooth VI Activate your team using a smart phone Give your team of robots Java power with leJOS Use Java on the Linux and Darwin operating systems Watch video demonstrations of the projects and download code and examples in multiple languages NXT G Java LabVIEW and NXC from the book's companion website at

www.robotteams.org Downloads are also available at mhprofessional.com/robotteams     *Building Robots with LEGO Mindstorms NXT* Mario Ferrari, Giulio Ferrari, 2011-04-18 The Ultimate Tool for MINDSTORMS Maniacs The new MINDSTORMS kit has been updated to include a programming brick, USB cable, RJ11-like cables, motors, and sensors. This book updates the robotics information to be compatible with the new set and to show how sound, sight, touch, and distance issues are now dealt with. The LEGO MINDSTORMS NXT and its predecessor, the LEGO MINDSTORMS Robotics Invention System (RIS), have been called the most creative play system ever developed. This book unleashes the full power and potential of the tools, sensors, and components that make up LEGO MINDSTORMS NXT. It also provides a unique insight on newer studless building techniques as well as interfacing with the traditional studded beams. Some of the world's leading LEGO MINDSTORMS inventors share their knowledge and development secrets. You will discover an incredible range of ideas to inspire your next invention. This is the ultimate insider's look at LEGO MINDSTORMS NXT system and is the perfect book whether you build world class competitive robots or just like to mess around for the fun of it. Featuring an introduction by astronaut Dan Barry and written by Dave Astolfo (Invited Member of the MINDSTORMS Developer Program) and MINDSTORMS Community Partners MCP groups and Mario and Giulio Ferrari, authors of the bestselling *Building Robots with LEGO Mindstorms*, this book covers Understanding LEGO Geometry, Playing with Gears, Controlling Motors, Reading Sensors, What's New with the NXT, Building Strategies, Programming the NXT, Playing Sounds and Music, Becoming Mobile, Getting Pumped, Pneumatics, Finding and Grabbing Objects, Doing the Math, Knowing Where You Are, Classic Projects, Building Robots That Walk, Robotic Animals, Solving a Maze, Drawing and Writing, Racing Against Time, Hand to Hand Combat, and Searching for Precision. Complete coverage of the new Mindstorms NXT kit. Brought to you by the DaVinci's of LEGO. Updated edition of a bestseller     **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 *Creating Cool*

*MINDSTORMS NXT Robots* Daniele Benedettelli,2009-03-24 Build and program MINDSTORM NXT robots with Daniele Benedettelli one of the world s most respected NXT robot builders He shows you how to build and program them from scratch starting with the simplest robots and progressing in difficulty to a total of seven award winning robots You can download all the code along with low resolution videos that show how your robot works when it s finished You don t need to be a programmer to develop these cool robots because all the code is provided but advanced developers will enjoy seeing the secrets of Benedettelli s code and techniques revealed

**Research and Education in Robotics - EUROBOT 2011**

David Obdrzalek,Achim Gottscheber,2011-06-25 This book constitutes the proceedings of the International Conference on Research and Education in Robotics EUROBOT 2011 held in Prague Czech Republic in June 2011 The 28 revised full papers presented were carefully reviewed and selected from numerous submissions The papers present current basic research such as robot control and behaviour applications of autonomous intelligent robots and perception processing and action as well as educationally oriented papers addressing issues like robotics at school and at university practical educational robotics activities practices in educational robot design and future pedagogical activities

**Powering Up a Career in Robotics**

Peter K. Ryan,2015-07-15 This intriguing book will pique the interest of all young people regardless of whether they are technically inclined The reason is that robots are all around us and will only gain in popularity This title educates readers on the various careers in the robotics industry from building robots to the back end work There s a place for everyone from the mathematically inclined to the artistically gifted With STEM being a major focus of today s educators this book will surely be a hit with students and librarians alike

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

beginner s guide to using the LEGO Mindstorms NXT 2 0 to build and program functional robotics systems featuring step by step tutorials fifty sample programs detailed building instructions to create a series of eight robots and more

**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,Jonathan Daudelin,Brian Davis,James Kelly,Lou Morris,Fay Rhodes,Rick

Rhodes,Matthias Scholz,Christopher Smith,Rob Torok,2007 This books 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 **Build Your Own Teams of Robots with LEGO® Mindstorms® NXT and Bluetooth®** Cameron Hughes,Tracey Hughes,Trevor Watkins,Bob Kramer,2013-01-29 CREATE YOUR OWN SYNCHRONIZED ROBOT ARMY PLAN DESIGN ASSEMBLE AND PROGRAM ROBOT SQUADS THAT COMMUNICATE and cooperate with each other to accomplish together what they can t do individually Build Your Own Teams of Robots with LEGO MINDSTORMS NXT and Bluetooth shows you how to construct a team capability matrix TCM and use the Bluetooth Robotic Oriented Network BRON so your robot teams can share sensors actuators end effectors motor power and programs Find out how the Bluetooth communications protocol works and how to program Bluetooth in NXT G NXC LabVIEW and Java Learn how to send and receive Bluetooth messages data and commands among robots between a robot and a computer and between an Android smart phone and a robot Through teamwork your robots will be able to accomplish amazing feats THE STEP BY STEP ROBOT TEAM PROJECTS IN THE BOOK INCLUDE Crime Scene Investigation Robot Team Robot Convoy Rubik s Cube Solver LEARN HOW TO Coordinate multiple robots to work together as a team to perform tasks Combine two or more microcontrollers to make a single multicore multi agent robot Take advantage of sensor and actuator capabilities in a team environment Establish goals and teamwork strategies for your robots Control your robot teams with NXT G Bluetooth bricks and LabVIEW for NXT Bluetooth VI Activate your team using a smart phone Give your team of robots Java power with leJOS Use Java on the Linux and Darwin operating systems Watch video demonstrations of the projects and download code and examples in multiple languages NXT G Java LabVIEW and NXC from the book s companion website at [www.robotteams.org](http://www.robotteams.org) Downloads are also available at [mhprofessional.com/robotteams](http://mhprofessional.com/robotteams) *FIRST LEGO League* James Floyd Kelly,Jonathan Daudelin,2008 Provides information on the workings and structure of a FIRST LEGO league competition covering such topics as organizing a team finding equipment and funding designing and building robots and using strategies and techniques to increase scores **Beginning Programming All-in-One Desk Reference For Dummies** Wallace Wang,2011-02-08 The fun fast and easy way to learn programming fundamentals and essentials from C to Visual Basic and all the languages in between So you want to be a programmer Or maybe you just want to make your computer do what YOU want for a change Maybe you enjoy the challenge of identifying a problem and solving it If programming intrigues you for whatever reason Beginning Programming All In One Desk Reference For Dummies is like having a starter programming library all in one handy if hefty book In this practical guide you ll find out about algorithms best practices compiling debugging your programs and much more The concepts are illustrated in several different programming languages so you ll get a feel for the variety of languages and the needs they fill Inside you ll discover seven minibooks Getting Started From learning methods for writing programs to becoming familiar with types of programming languages you ll lay the foundation for your programming adventure with this minibook Programming Basics Here you ll dive into how programs work variables data types branching looping subprograms objects and more Data Structures From

structures arrays sets linked lists and collections to stacks queues graphs and trees you'll dig deeply into the data Algorithms This minibook shows you how to sort and search algorithms how to use string searching and gets into data compression and encryption Web Programming Learn everything you need to know about coding for the web HyperText Markup Language better known simply as HTML CSS JavaScript PHP and Ruby Programming Language Syntax Introduces you to the syntax of various languages C C Java C Perl Python Pascal Delphi Visual Basic REALbasic so you know when to use which one Applications This is the fun part where you put your newly developed programming skills to work in practical ways Additionally Beginning Programming All In One Desk Reference For Dummies shows you how to decide what you want your program to do turn your instructions into machine language that the computer understands use programming best practices explore the how and why of data structuring and more And you'll get a look into various applications like database management bioinformatics computer security and artificial intelligence After you get this book and start coding you'll soon realize that wow You're a programmer *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

*Hacking Your LEGO Mindstorms EV3 Kit* John Baichtal, James Floyd Kelly, 2015-10-28 EV3 without limits Build 5 amazing robotics projects that take DIY to a whole new level You can do way more with your LEGO Mindstorms EV3 kit than anyone ever told you In this full color step by step tutorial top maker and best selling author John Baichtal shows you how to transcend Mindstorms limits as you build five cutting edge robotics projects You'll discover just how much you can do with only the parts that came with your kit and how much farther you can go with extremely low cost add ons like Arduino and

Raspberry Pi You'll learn how to reprogram your Mindstorms Intelligent Brick to add additional hardware options and create more complex programs. Hundreds of full color step by step photos teach you every step every skill. Whenever you're ready for advanced techniques Baichtal explains them in plain English. Here's just some of what you'll learn how to do: Build a drawing Plotter Bot that gyrates to draw new patterns. Hack Mindstorms wires and control robots without wires. Create a remote controlled crane and operate it from your smartphone. Use the EV3 brick to control third party electronic modules of all kinds. Replace the EV3 brick with smarter, more flexible Arduino, Raspberry Pi or BeagleBone Black hardware. Build a robotic flower whose petals open and close based on time of day. Use third party sensors to build robots that can sense practically anything. Load an alternate operating system onto your EV3 brick. 3D print, laser and mill your own perfect LEGO parts. Create ball contraptions and extend them with your own custom parts. Make a pole climbing robot and hook up an altimeter to track its height. This book is not authorized or endorsed by the LEGO Group. Register Your Book at [www.quepublishing.com](http://www.quepublishing.com) register and receive 35% off your next purchase.

[Entertainment for Education. Digital Techniques and Systems](#) Xiaopeng Zhang, Shaochun Zhong, Zhigeng Pan, Ruwei Yun, 2010-07-30

This book constitutes the refereed proceedings of the 5th International Conference on E learning and Games Edutainment 2010 held in Changchun, China in August 2010. The 60 revised full papers presented were carefully reviewed and selected from 222 submissions. The papers are organized in topical sections on E learning tools and platforms, E learning system for education, E learning environments and applications, game techniques for edutainment, multimedia techniques for edutainment, and computer animation and graphics for edutainment.

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