

RobotBASIC Projects for the Lego NXT



Robot Programming
for Beginner's

John Blankenship
Samuel Mishal

Robotbasic Projects For The Lego Nxt Robot Programming For Beginners

Owen Bishop



Robotbasic Projects For The Lego Nxt Robot Programming For Beginners:

Robotbasic Projects for the Lego Nxt John Blankenship, Samuel Mishal, 2011-02-01 Lego's NXT system allows you to snap together a robot base complete with a variety of self-contained modular sensors and motors. The problem with the NXT Robot though is software. While the visual programming language that ships with the system is supposed to be easy to use for beginners, many find it far from intuitive. Unless the tasks you are attempting are rudimentary and uncomplicated, you may find the NXT's programming procedures difficult to comprehend. Even many of the after-market languages available for the NXT have cryptic syntax that can frustrate a new user. One solution to these problems is RobotBASIC. Its easy-to-use English-like syntax makes programming easy to grasp even for beginners. We provide a library of routines that allow you to control the NXT without downloading anything to the robot itself. RobotBASIC controls the NXT's motors and reads sensory data by talking directly to the NXT computer using Lego's wireless protocol. With our system, you program totally on the PC and when your program is ready, just run it and watch the robot respond. We also provide a Lego Simulation Library that allows your NXT programs to operate with the RobotBASIC simulator, letting students experiment even when the Lego hardware is not available. Every student can work with their own simulated robot both at home and in the classroom, and when someone gets their program working, just plugging in a USB Bluetooth adapter will instantly allow their program to control the real NXT. This system makes programming easier to understand because the user can concentrate on concepts rather than cryptic syntax or an unintuitive graphical interface. Finally, RobotBASIC is a powerful, full-featured robot control language, so after you have learned all you can from the NXT, you can still use the RobotBASIC skills you learn from this book when you move on to other hardware technologies with more options and capabilities.

Getting Started with LEGO Robotics Mark Gura, 2011-07-15 Chapters covering each aspect of technology leadership including planning, curriculum and instruction, assessment, staff development, and legal and social issues.

Mobile Ad Hoc Robots and Wireless Robotic Systems: Design and Implementation Santos, Raul Aquino, 2012-12-31 The emergence of wireless robotic systems has provided new perspectives on technology. With the combination of disciplines such as robotic systems, ad hoc networking, telecommunications, and more, mobile ad hoc robots have proven essential in aiding future possibilities of technology. Mobile Ad Hoc Robots and Wireless Robotic Systems: Design and Implementation aims to introduce robotic theories, wireless technologies, and routing applications involved in the development of mobile ad hoc robots. This reference source brings together topics on the communication and control of network ad hoc robots, describing how they work together to carry out coordinated functions.

Programming Lego Mindstorms NXT Owen Bishop, 2008-06-16 Teach your robot new tricks. With this project-based approach, you can program your Mindstorms NXT robot to solve a maze, build a house, run an obstacle course, and many other activities. Along the way, you will learn the basics of programming structures and techniques using NXT-G and Microsoft VPL. For hobbyists and students working on robot projects, Bishop provides the background and

tools to program your robot for tasks that go beyond the simple routines provided with the robot kit The programs range in complexity from simple contact avoidance and path following to programs generating some degree of artificial intelligence a how to guide for programming your robot using NXT G and Microsoft VPL ten robot specific projects show how to extend your robot s capabilities beyond the manufacturer s provided software Examples of projects include Maze solver Robot House Builder Search obstacle avoidance Song and Dance Act flowcharts and data flow diagrams are used to illustrate how to develop programs introduces basic programming structures *Robot Development Using Microsoft Robotics Developer Studio* Shih-Chung Kang,Wei-Tze Chang,Kai-Yuan Gu,Hung-Lin Chi,2016-04-19 The Microsoft Robotics Developer Studio MSRDS and LEGO robots together offer a flexible platform for creating robotic systems Designed for novices with basic programming skills Robot Development Using Microsoft Robotics Developer Studio provides clear instructions on developing and operating robots It includes an extensive array of examples w **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 Unofficial LEGO MINDSTORMS NXT 2.0 Inventor's Guide](#) David J. Perdue,Laurens Valk,2010-12-01 The LEGO MINDSTORMS NXT 2 0 set offers hundreds of building elements programming software and powerful electronics that you can use to create amazing robots But where do you begin This eagerly awaited second edition of the bestselling Unofficial LEGO MINDSTORMS NXT Inventor s Guide is your key to designing building and

programming robots with the NXT 2.0 set You'll learn practical building techniques like how to build sturdy structures and use gears and gain a solid understanding of the set's NXT-G programming language A series of projects new to this edition offers step by step instructions for building and programming six robots each of which can be built with just one NXT 2.0 set including Inventor Bot a fast simple modular vehicle with treads Sentry Bot a robot guard that shoots balls at intruders Table Bot a vehicle that uses its antennae to avoid falling off a tabletop The Jeep a four wheeled vehicle that avoids obstacles and follows lines The Lizard a large walking robot that uses the color sensor to detect and respond to different colored balls The Printer a stationary robot that uses a pen or marker to draw letters words and shapes on paper Additional resources include the Piece Library which contains basic information on the more than 80 types of LEGO pieces in the NXT 2.0 set and the Quick Reference which lists the 34 types of standard programming blocks So go ahead Grab your NXT 2.0 set fire up your imagination and see what you can invent with The Unofficial LEGO MINDSTORMS NXT 2.0 Inventor's Guide [Robotbasic Projects for Beginners](#) John Blankenship, Samuel Mishal, 2008-06-11 Examines variables loops decision making using the mouse modular programming animation physics and writing a Paint program Also shows the basics of game making

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 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 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 *The Art of LEGO MINDSTORMS NXT-G Programming* Terry Griffin, 2010 The Art of LEGO MINDSTORMS NXT-G Programming teaches you how to create powerful programs using the LEGO

MINDSTORMS NXT programming language NXT G You ll learn how to program a basic robot to perform tasks such as line following maze navigation and object detection and how to combine programming elements known as blocks to create sophisticated programs Author Terry Griffin covers essential functions like movement sensors and sound as well as more complex NXT G features like synchronizing multiple operations Because it s common for programs to not work quite right the first time they are run a section of the book is dedicated to troubleshooting common problems including timing sensor calibration and proper debugging Throughout the book you ll learn best practices to help eliminate frustration when programming your robotic creations This book is perfect for anyone with little to no previous programming experience who wants to master the art of NXT G programming

Uncover the mysteries within Crafted by is enigmatic creation, **Robotbasic Projects For The Lego Nxt Robot Programming For Beginners** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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