(Free) LEGO MINDSTORMS NXT Thinking Robots: Build a Rubik's Cube Solver and a Tic-Tac-Toe Playing Robot!

LEGO MINDSTORMS NXT Thinking Robots: Build a Rubik's Cube Solver and a Tic-Tac-Toe Playing Robot!

Daniele Benedettelli
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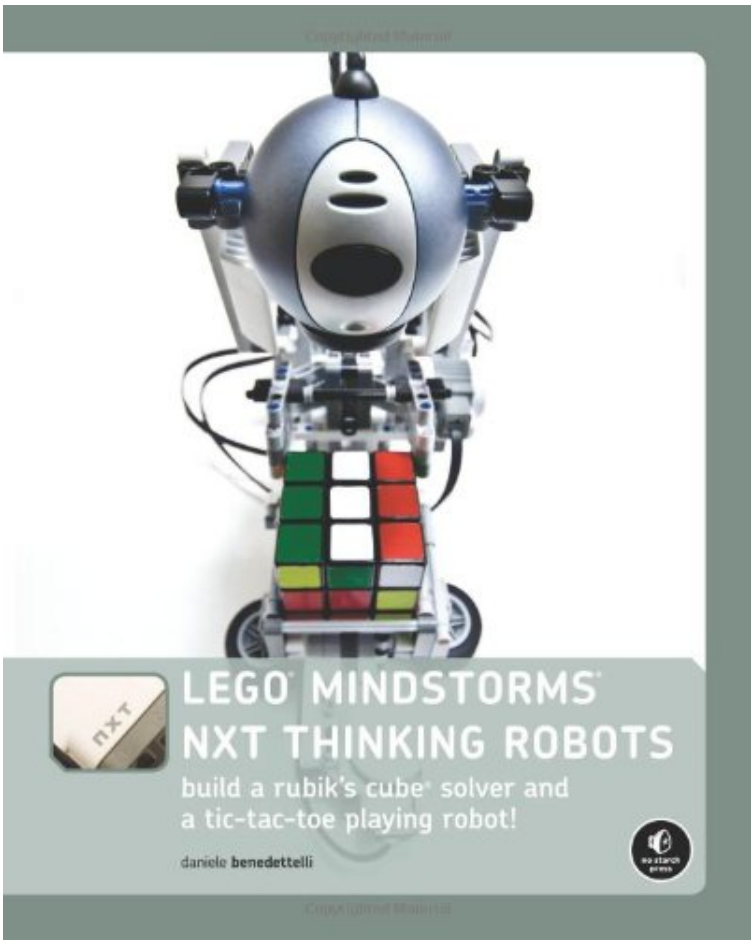

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Daniele Benedettelli : LEGO MINDSTORMS NXT Thinking Robots: Build a Rubik's Cube Solver and a Tic-Tac-Toe Playing Robot! before purchasing it in order to gage whether or not it would be worth my time, and all praised LEGO MINDSTORMS NXT Thinking Robots: Build a Rubik's Cube Solver and a Tic-Tac-Toe Playing Robot!:

0 of 0 people found the following review helpful. Some Awesome LEGO Robots Here!By Austin SimonsonThis book is primarily focused on a tic-tac-toe opponent and a Rubik's cube solver. It has some great, detailed instructions on how to build both of these marvels, as well as the software that you also need to use (located on the author's website). In addition, it gives a beginner level introduction to NXC/BricxCC/NeXT Tools. The book doesn't go in depth on those topics, but it gives you enough that you're now interested in them and want to learn more! There are detailed

instructions and pictures on how to build the Rubik's cube solver and the tic-tac-toe opponent for BOTH 1.0 and 2.0 NXT kits. I thought it was great that they took the time to include both versions of the kit in the instructions so that basically anyone with a kit can build them! Overall, I would say that this is a great gift idea for someone with an NXT kit who likes robots (or even as a gift to yourself!).3 of 3 people found the following review helpful. Nice Lego built, but no supportBy Data ScientistThis book shows you how to build two Lego Mindstorms projects: One for solving Rubic's cube and the other for playing tic-tac-toe.The idea is great. The instructions are more or less clear. The problems start when things don't work out first time: The author doesn't provide any debugging information, and no interactive support (there is a discussion board on his site, but it's useless for debugging this build).So, if your build works well first time, it's great! If, as in our case, it doesn't, it's extremely frustrating.Therefore, I'd recommend this book to an adult who wishes to spend time on making this work, but definitely not for a teenager.0 of 0 people found the following review helpful. RobotBy Harry TsoumbarasInitially a little too complex for his age, but he is growing into it. The lego side of things makes it fun.

It may look like one, but the LEGO MINDSTORMS NXT set is not a toy.Whether you've been building with the original LEGO MINDSTORMS NXT set for years or you just picked up a 2.0 set, you'll love this book.LEGO MINDSTORMS NXT Thinking Robots will show you how to build and program two robots that think. You'll be awestruck when the TTT Tickler ties you at tic-tac-toe and amazed when the One-Armed Wonder solves a Rubik's Cube in just a few minutes.These robots aren't child's play. The models are challenging, and you'll have to do a bit of thinking yourself to get them to work. But once you get the hang of it, your efforts will be amply rewarded.In addition to providing detailed instructions for building each model with either the original or the NXT 2.0 set, author Daniele Benedettelli takes you inside the robots to show you how they're designed, what makes them think, and how to use them. You'll learn how to: Control and calibrate your robots for best performance Dig into tic-tac-toe strategy to see how the TTT Tickler always plays to win Use the CubeSolver program to solve a Rubik's Cube with the One-Armed Wonder Better understand artificial intelligence as it relates to robotics, problem solving, and gaming And for you serious MINDSTORMS builders, all of the source code for programming the robots is available online. Not only will you get to see how the robots are programmed, but you can hack the code to make them act differently, too. You can find all of the source code at https://robotics.benedettelli.com/TRbook.htm.So go ahead, put on your thinking cap and get building!Requirements: A computer running Microsoft Windows 2000 or higher, one complete LEGO MINDSTORMS NXT or NXT 2.0 set, a webcam, some marbles, a couple of rubber bands, and an Internet connection (to download the programs).

About the AuthorDaniele Benedettelli is known worldwide for his original LEGO robots, including the LEGO Rubik Utopy (a Rubik's Cube Solver) and JohnNXT 5 (based on the robot in Short Circuit). Benedettelli is a member of the MINDSTORMS Developer Program (MDP) and a MINDSTORMS Community Partner (MCP), groups that help to test and develop new NXT products. He holds a masters degree in Robotics and Automation from the University of Siena, Italy and is the author of Creating Cool MINDSTORMS NXT Robots (Apress). In his spare time, Benedettelli enjoys composing music.