



Getting Started with LEGO Robotics: A Guide for K-12 Educators

Mark Gura

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Wouldn't it be nice if there was a golden ticket to STEM education? Something that incorporated science, technology, math, and the most elusive of all, engineering? What if it could be applied as part of a lesson, as a class on its own, or as an after-school club? Sound too good to be true? Its not. The golden ticket is robotics. Its hard to find a better way to teach STEM education. And the best part is its hands on, multidisciplinary, collaborative, an authentic learning experience, and engaging! LEGO Robotics has exploded in popularity, but despite the obvious benefits, many educators are hesitant to begin a program in their school because it seems challenging. Mark Gura has written this book to encourage you to give robotics a try.

Although starting a robotics program may seem like a daunting task, Gura brings together the information you need and presents it in a manageable, organized way so that you learn what LEGO Robotics is, what student activities look like, how to begin, how to manage a class, how robotics relate to standards, and much more. Gura concludes with more than a dozen interviews with educators, trainers, and even a student, so you can receive first-hand advice and recommendations. After reading this book you will be on your way to introducing your students to LEGO Robotics activities and competitions!

Features

A comprehensive introduction to LEGO Robotics, from a description of the materials to advice on classroom set-up and curricular integration

Recommendations for implementing LEGO Robotics as a FIRST LEGO League team, an extracurricular club, or as a class

An appendix with more than 100 resources including links to materials, information on getting started, videos, and more

Audience Educators (4-12), technology coordinators, administrators (4-12)

Topics include:

LEGO Robotics

STEM education

multidisciplinary instruction

project-based learning

The International Society for Technology in Education (ISTE) is the trusted source for professional development, knowledge generation, advocacy and leadership for innovation. ISTE is the premier membership association for educators and education leaders engaged in improving teaching and learning by advancing the effective use of technology in PK-12 and teacher education. Home of the National Educational Technology Standards (NETS), the Center for Applied Research in Educational Technology (CARET), and ISTE's annual conference (formerly known as the National Educational Computing Conference, or NECC), ISTE represents more than 100,000 professionals worldwide. We support our members with information, networking opportunities, and guidance as they face the challenge of transforming education.

Some of the areas in which we publish are:

- Web. 2.0 in the classroom-RSS, podcasts, and more
- National Educational Technology Standards (NETS)
- Professional development for educators and administrators
- Integrating technology into the classroom and curriculum
- Safe practices for the Internet and technology
- Educational technology for parents

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Mary Banks:

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