



# ROBOTICS RESOURCES

Tune in each month for a heads-up on where to get all of your "robotics resources" for the best prices!



## Getting Kids into Robotics

**R**obots and kids go together like bacon and eggs, peaches and cream, resistors and capacitors. Thanks to low-cost construction kits — and not to mention popular movies that glamorize automatons — more and more children are exploring the world of robots.

And that's not a bad thing. Robotics encompasses multiple disciplines, including mechanical engineering, software programming, electronics, even human psychology. In all, it's a great field to be interested in, because there are so many options for further study and exploration.

In this column, we'll review some of the kits, books, and other material available that are either expressly designed to motivate children in learning about robotics, or are readily adaptable to a child-age audience because of their design, support documentation, or other features.

### Let's Make a Robot!

Building a robot can be a time-consuming affair, requiring hours of sawing, drilling, grinding, soldering, and programming. Many kids simply don't have the attention span to wait that long before seeing results, so for the typical child a ready-to-go kit is the best option. Ideally, the kit should include all the mechanical and electronic components to make a functional robot capable of at least

rudimentary actions, such as reacting to light or following a black line on a white piece of paper. Fortunately, there are many such kits available, at prices starting at about \$20. Of course, the more sophisticated the robot and its abilities, the more the robot will cost.

At the lower end of the scale is the single-function kit, requiring at least mechanical assembly. By "single-function," it means just that. These "bots" are made to do one thing and encompass no intelligence or programming. For example, the robot may merely react to sound, or follow a line. The OWI-9910 Weasel is an example. Two photo detectors on the underside of the robot detect a line drawn on the ground and two touch switches on its body give it a simple obstacle avoidance mechanism.

Some robot kits are designed for remote control by a human. The least expensive of this breed uses a wired tether. You steer the robot by flicking a set of switches. For instance, there's the OWI-9280 Soccer Pro kit. It's a simple wheel-based vehicle with a two switch wired remote. With a couple of these, your child and a friend can play miniature robotic soccer, pushing a ball around a small field.

There are many other single-function robot kits, and the OWI product line is perhaps the most complete in this category. The kits

are available from several retailers (a couple of the main online stores are listed in the Sources), and are grouped by skill level. These basic mechanical-only kits comprise the least expensive of the lot. Next, are the kits that require electronics of some kind come with complete and ready-to-go circuit boards, though a few models are available with the electronics also in kit form. These are handy for learning about soldering and electronics construction.

For purely mechanical construction, there's the robotics and educational products from Tamiya. Most of these are not found in local area hobby stores, but are common enough online, especially from robotics-specific retailers. We provide a short list of sources for these, as well.

Next up the ladder are fully programmable kits (typical price range is \$120-\$175), where you develop and download a script for the robot's action from a personal computer. Once programmed, the robot is self-sufficient and autonomous. Probably the most well-known lot of this type is the Parallax BOE-Bot (\$160), which consists of a metal chassis and hardware, twin servo motors and wheels, and an already-assembled electronics board (the BOE Board), complete with the Parallax BASIC Stamp microcontroller.

The BOE Board is connected to a host computer via serial or USB.

# Getting Kids Into Robotics Servo Magazine

**Robert R. Redfield**



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## **Table of Contents Getting Kids Into Robotics Servo Magazine**

1. Understanding the eBook Getting Kids Into Robotics Servo Magazine
  - The Rise of Digital Reading Getting Kids Into Robotics Servo Magazine
  - Advantages of eBooks Over Traditional Books
2. Identifying Getting Kids Into Robotics Servo Magazine
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Getting Kids Into Robotics Servo Magazine
  - User-Friendly Interface
4. Exploring eBook Recommendations from Getting Kids Into Robotics Servo Magazine
  - Personalized Recommendations
  - Getting Kids Into Robotics Servo Magazine User Reviews and Ratings
  - Getting Kids Into Robotics Servo Magazine and Bestseller Lists
5. Accessing Getting Kids Into Robotics Servo Magazine Free and Paid eBooks

- Getting Kids Into Robotics Servo Magazine Public Domain eBooks
  - Getting Kids Into Robotics Servo Magazine eBook Subscription Services
  - Getting Kids Into Robotics Servo Magazine Budget-Friendly Options
6. Navigating Getting Kids Into Robotics Servo Magazine eBook Formats
    - ePub, PDF, MOBI, and More
    - Getting Kids Into Robotics Servo Magazine Compatibility with Devices
    - Getting Kids Into Robotics Servo Magazine Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Getting Kids Into Robotics Servo Magazine
    - Highlighting and Note-Taking Getting Kids Into Robotics Servo Magazine
    - Interactive Elements Getting Kids Into Robotics Servo Magazine
  8. Staying Engaged with Getting Kids Into Robotics Servo Magazine
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Getting Kids Into Robotics Servo Magazine
  9. Balancing eBooks and Physical Books Getting Kids Into Robotics Servo Magazine
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Getting Kids Into Robotics Servo Magazine
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Getting Kids Into Robotics Servo Magazine
    - Setting Reading Goals Getting Kids Into Robotics Servo Magazine
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Getting Kids Into Robotics Servo Magazine
    - Fact-Checking eBook Content of Getting Kids Into Robotics Servo Magazine
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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