



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

Robots 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

Wolfgang Guggemos



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