ROBOTIC ARM TRAINER

The Robotic Arm Trainer teaches the basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. You can command this unit with its five switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways 350 degrees. After assembly, observe the dynamics of gear mechanisms through the transparent arm. Five motors and five joints allow for flexibility and fun! For educators and home schoolers, you’ll find this robot’s motor skills curriculum and personal computer interface useful tools.

OWIKIT TEACHKIT

A complete teacher guide written by teachers for student experimentation with all OWIKIT robots (except 007 Arm)!”

CURRICULUM for ROBOTIC ARM TRAINER

This guide will provide a step-by-step instructional curriculum to help teachers integrate the Robotic Arm Trainer into their lesson plans. This guide includes: (1) The UNITs, 20 robust UNITs that cover an introduction to robotic technology, basic robotics, advanced robotics, and special topics; (2) the UNIT guide, which provides instructions for each UNIT; and (3) an answer key, containing the solutions to all the exercises in the guide. The guide is designed to be used in conjunction with the OWIKIT TEACHKIT, an essential resource for educators of all levels.

Robot Rink

OWI-RINK

A self-contained, interactive desk-top robot kit designed to teach students about robotics and the basics of programming. The kit includes: (1) the robot, which can perform simple tasks such as moving back and forth or spinning in circles; (2) a circuit board, which allows students to control the robot using simple commands; and (3) a user guide, which provides instructions for assembling the kit and using the robot.

SOCIETAL IMPACTS OF COMPUTATION TEACHKIT

OWI-SIC

A must for grades 6-12 computer science, computer science, and technology teachers! This project-based curriculum introduces students to the ethical and social implications of technology, including topics such as privacy, security, and data sharing. The curriculum includes step-by-step instructions, real-world examples, and opportunities for students to explore the impact of technology on society.

Robotics Technology Curriculum for ROBOTIC ARM TRAINER

007-RTC

This curriculum combines reproducible, printed student activities for OWI’s Robot Arm Trainer with PC/mac compatible concepts. It includes online, and over 25 pages.