



2005 PROGRAMMING WORKSHOP

WHEN: Wednesday, December 1st, 2004 – 3:30pm
WHERE: West Islip High School
Room 153 – Tech Dept. Computer Lab

DIRECTIONS:

Sunrise Hwy to Udall Rd. South, follow about 1.5 miles south (Udall becomes Higbie) make left onto Lions Path. Follow road around to back of school. Park in back lot near the automotive garage doors.

Maximum 2 mentors and 2 students per team

Materials Required:

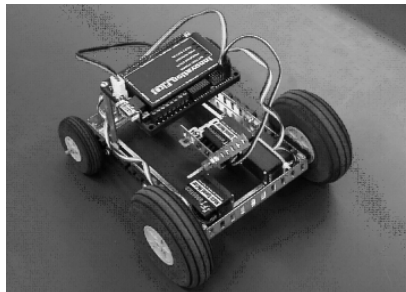
Educational Robot Kit – Mini-Robot Controller (Pre-built)*
R/C Controller (4 channel hobby controller)
Laptop and Software (Lab computers will be available)

In the workshop we will be covering:

- connecting R/C controller to Mini-Robot controller
- method of downloading code to controller
- specific files to edit
- mapping input/output signals
- debugging code
- syntax review for C
- lesson on Full-Sized R/C programming

****Experienced programmers welcomed****

The purpose of this workshop is to help all teams become familiar with the basics of the new Mini-Robot Controller and new MicroPIC microcontroller and C programming language. We will not be covering many advanced topics, but will do our best to field all questions presented. In the spirit of gracious professionalism, we would like to encourage other veteran teams attending to actively participate in mentoring and answering questions from less experienced teams



* We recommend that all teams pre-build a 4-wheeled robot with 2 drive motors (left and right) and two subsystem motors (arm, gripper, etc)