Before we embark on a detailed investigation of probabilistic algorithms for robot navigation, mapping and control, this first assignment concerns the topics of robot programming using MOOS, and simple sensor processing and trajectory control.

**Problem 1.** The primary goal this assignment is to enable you to write your own MOOS applications. To get started, write a MOOS application that implements a “Waypoint Controller” that steers the robot around the (simulated or real) environment using odometry measurements for position estimation. You should write this as a new MOOS application (e.g. call it pWaypoint) that operates with the existing MOOS processes iRobotSim, pRobotViewer, iRemote, MOOSDB, and pLogger. We'll give you a demo in class of how to do this.

Detailed directions for downloading, building, and running the software are provided at:

https://web.mit.edu/2.166/www/software/index.html

Be sure to ask for help if you need it, by emailing the course staff.