

Psych269 Cognitive Robotics – Laboratory 2

Actuation – Moving About

In this lab, we will explore motor control with the NXT robot. We will be using the robot that we built last week. The task is to complete a course laid out by the instructor. Pylons will mark the course. After some initial testing, there will be a contest to see which robot completes the course and gets closest to each course marker. Use the LEGO Mindstorms NXT drag and drop software. The first round of the contest will be run at 75% speed. The second round will be run at 50% speed. Contestants are to use the same software in both rounds and are only allowed to change the robot speed in their code.

Note: The tiles in the lab are 9-inch squares. You still may want to bring some measuring device.