CSCI4155/CSCI6505: Assignment 3

This is a group assignment. Assignments must be submitted on paper at the beginning of the Tuesday class, October 8, 2013 and demonstrated in class. Late assignments not accepted.

1. Use one motor with a pointer to build a simple robot arm. Drive the pointer in a waving pattern and use a camera to recognize the rotation angle of the pointer. Plot a diagram that shows the difference of this estimation against the sensor measurement provided by the motor. [4]

2. In this exercise you should write a program so that the tribot follows a wall. In class we will use this to have a race that will time the robot in following a wall for a certain distance.

[win 4, completing task 3, partley follows wall 2, robot moves 1]