

## 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 robot 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.  
[winner 4, completing task 3, partly follows wall 2, robot moves 1]