LAB4: Line Following Robot Race
Assigned 1/27. Race for time at 5:30 on 1/29

**Race Competition:** Expand on Lab 3 by improving your line following robot. Refine your line following algorithms as needed to speed and smooth this robot’s performance. You may use more than one reflective sensor if you wish. The line follower should include at least one homemade wheel encoder to monitor the wheel position.

The race will be the same course as lab 3: Your robot should follow the black line from one end of the board, over the ramp to the other end of the board. When the robot hits the wall, it should turn around and follow the line back over the ramp to the starting location. Your time will be start when you press a start button and time will end when your robot touches the wall by the starting location.

The team with the fastest time will receive 10% extra credit and bragging rights until Lab 6.

After the race turn in a copy of your code, with comments, to the TAs.

As in Lab 3, it is advised that you maintain a calibration program for your reflective sensors. System debug and performance tuning will be drastically easier if you can modify critical values without downloading new code.