

# 16-311 Introduction to Robotics

## Lab 3 Grading Sheet – Demo Day: Tuesday, 2011/02/01

Team #\_\_\_\_\_ TA: \_\_\_\_\_

Team Members \_\_\_\_\_

(include Andrew IDs) \_\_\_\_\_

\_\_\_\_\_

### Part 1: Line Following

| Attempt                | 1 | 2 | 3 | Max Point Value |
|------------------------|---|---|---|-----------------|
| Checkpoint 1           |   |   |   | 25              |
| Checkpoint 2 (Halfway) |   |   |   | 25              |
| Checkpoint 3           |   |   |   | 25              |
| Checkpoint 4 (Finish!) |   |   |   | 25              |
| Speed Penalty          |   |   |   | -2 over 45 sec  |
| Easier Attempt         |   |   |   | -20             |
| Harder (Bonus) Course  |   |   |   | +10             |
| Total                  |   |   |   | 100             |

### Part 2: Ded Reckoning

| Attempt                                                                                                 | 1 | 2 | 3 | Max Point Value |
|---------------------------------------------------------------------------------------------------------|---|---|---|-----------------|
| Positioning Error                                                                                       |   |   |   | 70              |
| <= 5 cm: 70 points                                                                                      |   |   |   |                 |
| > 5cm: – 10 points/cm                                                                                   |   |   |   |                 |
| Orientation Error                                                                                       |   |   |   | 30              |
| <= 5°: 30 points                                                                                        |   |   |   |                 |
| 5° <=10°: –1 points/degree(over 1 <sup>st</sup> 5°)<br>>10°:-5 points/degree (over 1 <sup>st</sup> 10°) |   |   |   |                 |
| “Easy Mode” Penalty                                                                                     |   |   |   | -15             |
| Total                                                                                                   |   |   |   | 100             |