Project Grading:

This is the rubric for the project.

Presentation: 15 points

Presentation and Demonstration: this is a demonstration of your robot and a PPT presentation of your project and results. Limit the presentation and demo to 20 minutes.

- Presentation Slides: Make sure your PPT presentation covers the following topics: model, analysis of stability, controllability, observability, your controller and estimator. For your Minseg robot, mention what worked and what did not work, what were some challenges you faced, any extra analysis you did beyond the given steps.

- Presentation: how well the presenters present the material

- Coverage: does the presentation cover all the contents comprehensively?

- Design effort: how well the team come up with their own design to make the robot balanced?

- Demonstration: does the robot balance? What methods were used? Did you try the sonar sensor? Use your own laptop for the presentation and for powering the robot in case you are not using batteries. You can use the table in the front of the room for the demo.

We encourage you to ask questions so that the presentations and demonstrations are fun and interactive.

Report: 35 points

See the project steps in the project assignment.

Steps 1-2: 2 points each

Steps 3-9: 1 point each

Steps 10-14: 2 points each

Step 15: 3 points

Steps 16: 4 points

Step 17: 4 points

Step 18: 3 points

Please return all your robots after the presentation. Bring your robots on the demonstration day.

Due: Last Class 11:59pm.

Follow the naming rule of the files for the pdf and PPT slides:

Last-name-member1_last-name-member2_EEP547_project