

EE 491 Weekly Report May15-27 Week 12 & TG break (11/17/14 –11/30/14)

Advisors: Dr. Jones, Dr. Elia

Team Members:

- Alberto Di Martino * Team Co-Web *
- Dylan Gransee * Webmaster *
- Robert Larsen * Team Leader *
- Ian McInerney * Team Key Concept Holder *
- Aaron Pederson * Team Communications *
- Rohit Zambre * Team Secretary *
- Fengxing Zhu * Team Comm. Co-leader *

Work Hour Totals:

Team Member	Weekly Hours	Running Total
Aaron	5.00 + 3.00	105.50
Alberto	3.00 + 3.00	96.50
Dylan	1.50 + 4.00	120.00
Fengxing	5.50 + 3.00	79.00
Ian	10.00 + 0.00	98.50
Robert	0.00 + 1.00	105.00
Rohit	6.00 + 2.50	88.00

Weekly Summary

In these two weeks we had a great amount of progress. We had a work session on Friday before break where we fixed some bugs in the ground station and tuned the PD values to a very highly functioning system. We have been working on porting Eris to a new computer but still haven't gotten it to work completely.

Pending Issues:

1. Being able to port Eris to new computer
2. Being able to recreate the Ground Station with new software

Next week goals:

Aaron:

- Migrate to new simpler ground station

Alberto:

- Migrate to new simpler ground station

Dylan:

- Work on vrpn and porting eris to a new computer

Fengxing:

- Begin creating the 2-d model of an inverted pendulum

Ian:

- Measure Motor constants

Robert:

- Help with porting Eris to new computer

Rohit:

- Improve and expand on current data analysis and logging

Individual Contributions:

Aaron:

- Soldered new ESC and fixed polarity of old ones, Also asked Lee about wiring for the PWM signals. (2 hr)
- Friday work session (3 hr)
- Fixed logging filename issues and bias in quad angle(3 hr)

Alberto:

- Friday work session (3 hr)
- Fixed logging filename issues and bias in quad angle(3 hr)

Dylan:

- working on VRPN for Eris (4 hr)

Fengxing:

- Worked with Dr.Elia to tune the PID value(3 hr)
- Read Paul's Thesis(3 hr)
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Ian:

- Analyzed controller used during previous week's testing (3 hr)
- Created PD controller design tools for the system(2 hr)
- Team Meeting + Discussion about system model's need for friction constants (2 hr)
- Measuring motor constants + Meeting about regulator circuit + Discussion about system model + testing (3 hr)

Robert:

- Redid task list and task documents (1 hr)

Rohit:

- Team Meeting (1) + Work on the Data Analysis with Dr. Elia (2)
- Worked with Dr. Elia, Paul, Matt, Aaron and Alberto to get the 1-D system to work(3 hr)

Meeting Notes:

No meeting notes taken.