Weekly Report **May15-27** **S2 Week 2** (1//19/15 – 1/25/15)

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 *

Weekly Summary

The PID control function is coded on Eris. It will require a few modifications, such as saturation. The new wheels arrived and have put on Eris. A Simulink model has been put together as well, and the ESCs have been flashed.

Pending Issues:

- Lots of flex in pole
  - System still works, but would be more stable with a better pole.

Individual Contributions:

Aaron:

- Worked on integrating analysis GUI with Rohit's Matlab script
- Looked at Lowe's for a better pole
- Solved jitter issue

Alberto:

- Helped Aaron look for pole at Lowe's
- Helped test system and solve jitter issue

Dylan:

- Attached new wheels to Eris and tested
- Implemented TCP connection and tested without VRPN

Fengxing:

- Built Simulink model of 2-D system

Ian:

- Soldered leads onto ESC to flash

- Flashed first ESC

Robert:

- Coded the PID control function for Eris

Rohit:

- Commented existing MATLAB Scripts

- Updated descriptions and sent the current tool to the MicroCART team

Next week goals:

Aaron:

- Document base station explaining jitter

Alberto:

- Help Aaron document base station

Dylan:

- Finish TCP with VRPN and test on Eris

Fengxing:

- Continue work on 2-D model
    - Test Simulink model with constants
    - Compare to other models

Ian:

- Learn and test parameters of new software on ESCs
- Calibrate flashed ESC

Robert:

- Test PID control function
    - Need VRPN collection complete

Rohit

- Working on script to parse excel data stored by the camera

Work Hour Totals:

Team Member	Weekly Hours	Running Total
Aaron	3.00	129.50
Alberto	9.00	123.50
Dylan	12.00	156.50
Fengxing	6.00	111.50
Ian	6.00	127.50
Robert	9.50	124.00
Rohit	4.00	115.50