

## Weekly Report

May15-27

S2 Week 7 (2/23/15 – 3/1/15)

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 logging code has been added to Eris. There is an issue with timing over the network that Dylan will discuss in the meeting. Aaron and Alberto have begun looking at a way to use Eris for mounting the pendulum. Dylan has gotten the code to compile and run on a different machine.

## Pending Issues:

- One of the ESCs does not arm properly
- Timing issue in networking with Eris

## Individual Contributions:

Aaron:

- Submitted part diagrams and models for construction to Lee and Boyd Lab. Should have them by next week.
- Tried to test 2-D but one of the ESC need re-flashing.

Alberto:

- Contributed on the design of Eris new body frame
- Tried to set up 2-D dimensions with ground station (not successful)

Dylan:

- Got the Eris code compiling and running (as expected)

Fengxing:

- Tested 2-D model. It passed 1-D testing.
- Searched for some sensors.

Ian:

- Made cable to power Eris from power supply (no need to use the batteries for testing now)

- Configured NFS on new development machine, and worked around config annoyance
- Finished wiki entry for ESC flashing

Robert:

- Finished adding logging to Eris.

Rohit:

- Added logging feature on to Eris
- Created master\_parser to the Data Analysis
- Working on quat 2 euler angle conversion

## **Next week goals:**

Aaron:

- Assemble Eris with new body
- Design a base for the pendulum incorporating a way of mounting different types of joints.

Alberto:

- Assemble Eris with new body

Dylan:

- Document on the wiki how to set up a computer to compile the code for eris
- Reorganize the new Eris code in a meaningful way

Fengxing:

- Doing 2-D testing
- Doing more sensor searching.
- Document 2-D model.

Ian:

- Making power switch for pendulum motors (so they can be turned off independent of Eris)
- Beginning experiments with the accelerometer and filtering it's output

Robert:

- Add control for second motor axis to Eris

Rohit

- Look into filtering for sensor data
- Work on debugging the GUI interface of the Tool

**Work Hour Totals:**

Team Member	Weekly Hours	Running Total
Aaron	4.00	164.80
Alberto	5.00	153.00
Dylan	4.50	186.50
Fengxing	6.00	138.00
Ian	8.50	163.00
Robert	5.50	156.50
Rohit	4.00	143.50