

## **MINUTES – Fly Rollers Meeting 10 (12/3/15)**

No formal meeting as Dr. Hess and Dr. Santora were absent. All team members present.

### **Discussion:**

- a) Evan and Brian discussed the PWM signal that is to be sent to the H-Bridge outputs. Further discussion on Locked Antiphase Operation is desired as well as a consultation from Dr. Santora and/or Dr. Hess. The PWM signal will be sent straight to the direction pin on the H-Bridge, causing it to switch during the PWM cycle that is given. This is a bit different than the original understanding of the PWM signal that was to be sent.
- b) Philip and Gavin worked on the SASB. We activated the coils but were not able to stabilize the SASB at 1mm. The PWM signal looked good but didn't appear to change. We originally suspected that the current sensor was not returning valid results or that it may be a calibration issue. Unfortunately, the more we worked with it, the more confused we became even supposing the board was shorted or broken. At one point, we got very different results simply by wiggling the pins on the bottom of the board. We will need to work with Santora to see if our problem is merely a soldering issue or something more serious.

### **Action Items:**

- 1) Everyone needs to prepare for Snapshot
- 2) Continue working on last week's action items

### **Gantt Chart Items:**

- 1) Finish fixing the SASB
- 2) Finish mapping microcontroller pins to H-Bridge
- 3) Study rotational Algorithms and PID controllers
- 4) Start Coding Rotational Algorithm

Respectfully Submitted,

Gavin Meyer