

MINUTES – Fly Rollers Meeting 2 (9/17/15)

All team members present and stakeholder Michael Santora.

Discussion:

Most items we talked about are listed as action items but we also mentioned the following topics:

- a) The general structure and rotational theory for the Flywheel.
- b) How PID controllers work and why differentiating noisy signals is a bad idea.
- c) That we will try to rotate software and hardware roles to maximize project understanding.
- d) The max RPM is actually 2500RPM
- e) The flywheel *can* reach its max speed very slowly (within 14 days) but we will try to do it faster.
- f) All of us need to put a minimum of 9 hours a week towards senior design. This should be reflected in our log books.
- g) Finally, we need to save our work regularly and be mindful of reversion control.

Action Items:

- 1) Everyone needs to look over Brent's and Kevin's Theses
- 2) Everyone needs to study and understand vacuum couplings
- 3) Philip needs to find out who his NASA financial contact is (**Santora will help here**)
- 4) Everyone needs to download TI's Code Composer Studio and Control Suite
- 5) Gavin will email Christine Berven and try to get two or three keys for the group
- 6) Brian will post these MINUTES and future documents to the wiki page
- 7) Everyone needs to study drive systems
- 8) Everyone needs to study PW1 signals and documentation on "continuing"
- 9) Gavin will lead the agenda next week which will be our client interview

Respectfully Submitted,

Gavin Meyer