

Moderator: Nicholas Bachus

Minutes Taker: Brian Cartwright

Present: David Arnett, Shea Morrison, Nick Bachus, Cooper Atkinson, Justin Pettingill, Matt Phillips, Kyle Petersen, Ian Tanimoto, Brian Cartwright, Andrew Jones, Dr Hess, Feng Li

- **Updates from Teams**

- Stator Design Team Updates
  - Electrical team
    - Have torque model made, but not working
    - scheduled meeting with Dr Law
    - almost finished MathCAD model, still needs some debugging
    - switch case for negative coils doesn't change the graphs
  - Mechanical team
    - working on assembling low-speed
    - Working on fatigue and heat transfer model for high-speed
- Controls team
  - had design review Friday
  - have hardware set up as much as possible
  - heard back from kevin about x-displacement pins,
  - ready to finish hooking up hardware (just need more keys)

- **Updates from Mentors (Dr. Hess, David, Justin)**

- David
  -
- Justin
  - Picture session from 3-5pm Thursday
- Dr. Hess
  - We're at 11.5k / 15k for Ansys license
  - give project poster to research expo on the 24<sup>th</sup> (Monday before expo, details in email)
  - Capstone is 28<sup>th</sup>, just use the same poster for both.

- **Tuesday Meeting Updates**

- Ordered stainless steel ball bearings, should be here next week
- looking into more low-speed hardware
- going to disassemble low-speed for measurements
- working on getting rotation encoder centered

- **Updates from Senior Design (Dr. Feng Li)**

- Logbooks due February 17, 2017
- register for expo early
  - figure out how many tables we want, get that info to Rob

- going to talk to Rob about holding our expo in IRIC
- **Other Updates**
  - Get lab safety papers to David
- **Next meeting review (W/O January 15, 2017)**
  - Moderator: Brian Cartwright
  - Minutes Taker: Shea Morrison
- **Adjourn**