

Location: Professor Willy's Office

Date: 11/29/18

Time: 6:45pm

Abstract: Update from electrical team about prototyping and building/testing deadlines for the whole team

- Meetings with Willy will now be team leads only
- Electrical Team
 - Working on all prototypes and converters
 - Next prototype will be a buck boost
- Requirements for whole team
 - be able to compete in all parts of the competition
 - have backups for all parts
 - teams in the past have had parts malfunction and could not perform at the competition
 - be module
 - if a part breaks make it easy to replace (plug and play)
- Deadlines
 - Full system integration and subsystem assembly by February 1st
 - Subsystem testing done by February 15th
 - Full system testing by March 1st
 - Finish off testing at the end of March
- Anticipate failure
 - Know where there might be weak points in the design and test out those designs to see if they are capable of operating without malfunctioning
- Look into Gimbal Motors for the generator
 - remember that 100-200kv rating is going to be preferred
- Once the yaw bearing assembly and pitching mechanism is created be sure to create an exploded view to show
- Look into roller bearings or deep groove ball bearings for the yaw

bearing assembly

- Willy needs to see the math for the amount of braking force needed to stop the wind turbine at 20m/s

Meeting Adjourned: 8:00pm