

Friday October 14, 2016

Meeting Minutes

Attendees: Dylan Humber, Dr. Rhineland, Lucas Doucette, Brendon Camm

All parts other than 3 electronic speed controllers have arrived

-Dr. Rhineland will work out the flashing software for the components etc.

Discussed Simulink, plan to simulate the quadcopter within the next month

- Need to determine torque characteristics etc for the motor
- The characterization may be completed with an entire built body to ensure error tolerances are minimized
- Complete all simulations using discrete time (Dr. Rhineland recommendation)
- Use continuous time for early simulations, sample the continuous time in the future
- Would like to characterize the copter during reading week
- Plan to do the characterizing at smu
- Let's have some fudged number simulations completed by the next meeting
- Discussed modelling techniques of the brushless dc motors being used

Characterization will involve

- Moment created
- Lift/torque characteristics
- 2/4 motor operation characteristics

List will be improved at the next meeting (one week prior to the characterization of the quadcopter)