

Radio Flyers

EE 41440

20 January 2012

Minutes 01-20-12

1. Part orders

- Purchase quad copter with controls, then make our own
- Design board as a test platform with header pins vs buying separate breakout boards for each sensor

2. Gps

- 10hz refresh rate
- issues may arise with antenna

3. Schafer has accelerometer kit boards

- may want altimeter (barometer)
- gyro
- can use sonar for height

4. Algorithm for quad-copter controls

- Look at papers, master's thesis, etc.
- PID, Figure out how to use Simulink

5. Things to do

- Talk to Natalie to get a cart in the learning center
- Get a tool kit
- Will get a public website for documentation

6. How to build a board

- Start with what you need, major components,
- Figure out I/O pins, protocol, voltage, etc.
- How do they interface with the microcontroller, may need to debug