

Radio Flyers

EE 41440

25 January 2012

Minutes 01-25-12

## 1. Final Parts List

Dr. Schafer told us to send him the spread sheet and he'll look at it

There is a device that is a three access acc/gyro

Camera kit okay?

Schafer said we don't wanna do a video transmitter, therefore the kit will be fine

Us: will shuddering be a problem?

Schafer will look at that also (going to be hard regardless)

what else involved in the board?

Schafer: Things to think about-

What is the interface?

spec sheet will have external hardware associated

It'll make life easier to have things at same voltage

SD Card?

Will be that be useful in gathering data?

may want to be recording data if things go screwy

\*Schafer: Transmitter will be better method because SD card would write too slow.

Julian on Transmitters

Talked to Prof, but prof didn't have everything.

Will go back later this week

Barometer vs Sonar

Schafer thinks we'll need Barometer in any event

His worry with sonar is sonar things tend to be pretty hokey

so not a clean interface

Schafer: Specs on Barometers?

will it have an ultra sonic for landing?

Jay: not the ones we're looking at. Auto-pilots do.

Schafer: Start roughing out your board with things like GPS, accel, \*see if you need a different microcontroller

Schafer: Building the board is probably a couple week job.

Expect this to take several weeks

First step is locking down components

Quad Rotor -

Schafer: What happens is i get their board?

Jay: they have software and everything

Schafer: Lets get one that we can actually fly. Then we could conceivably do experiments on their program.

## 2. First Design Review

Feb 27th

Use kit boards to show motors running, etc.

Julian: Can we use an arduino?

Schafer: depends... Interface??

For you're group, i'm less concerned about the hardware as the control algorithm.

### 3. Sub Systems

### 4. Plan of attack

2 groups: Sensors & Controls

Schafer: we might want some assistance when we get to controls

Dr. Bauer...

Schafer: So you're gonna send me your parts list now.