

Radio Flyers

EE 41440

25 January 2012

Agenda 01-25-12

I. Final Parts List:

Gps - https://store.diydrones.com/MediaTek_MT3329_GPS_10Hz_p/mt3329-01.htm

Barometer (without breakout board) - <http://www.sparkfun.com/products/9603>

-AND/OR-

Sonar - http://store.diydrones.com/MB1200_XL_MaxSonar_EZ0_p/ac-0004-15.htm

Accelerometer (without breakout board) - <http://www.sparkfun.com/products/9045>

Gyroscope - <http://www.sparkfun.com/products/9793>

Camera - http://www.hobbyking.com/hobbyking/store/uh_viewItem.asp?idProduct=13438

Can Finalize Later

Radio Controller - AME Department

Transmitter -

Transmitter/Camera pair?

SD card

Talk to Schafer?

Quad Rotor: https://store.diydrones.com/ArduCopter_3DR_Quad_KIT_Frame_MOTORS_p/kt-ac3dr-02.htm

or

<http://www.dronesvision.com/gauai-222005-500x-foldable-quadcopter-combo-kit-including-motors-escs-storage-bag-protection-frame-gu-344/>

II. First Design Review

When is this?

III. Sub Systems

Sensors:

Altitude sensing - Barometer, Sonar

Position Sensing - GPS

Orientation - Gyroscope, Accelerometer

Control:

Radio Control

Autopilot

Surveillance:

Video

Transmission

Storage:

Flight Data

Image Data

IV. Plan of Attack

Division of Labor:

Control Group:

Members: Jay Burns, Steven Cress, Karen Yokum

Plan: Get Autopilot algorithms and stabilization algorithms working

Hardware Group:

Members: Julian Corona, John Walsh

Plan: Sensors done then move on to surveillance and storage