

Radio Flyers
EE 41440
22 February 2012

Minutes 02-22-12

Jay: Quad rotor is 95% complete

Waiting on battery, need a connector

Zip tie the wire down, so that they don't come undone

Board status:

Check power and ground, they are impossible to fix

Don't forget reset pin, must be tied correctly, enable pin on GPS, etc.

PID:

Derivative term is $E_i - E_{(i-1)}$ Integral is Σ of E

Can't account for sensor inaccuracies, but may be able to reduce noise

Compare actual position with desired position

Speed controllers:

Check the timing diagram on the ESC to determine what pulse width gives desired motor rotation