

FLIGHT CONTROL PROGRESS REPORT

WEEK 15

Previous Week Tasks

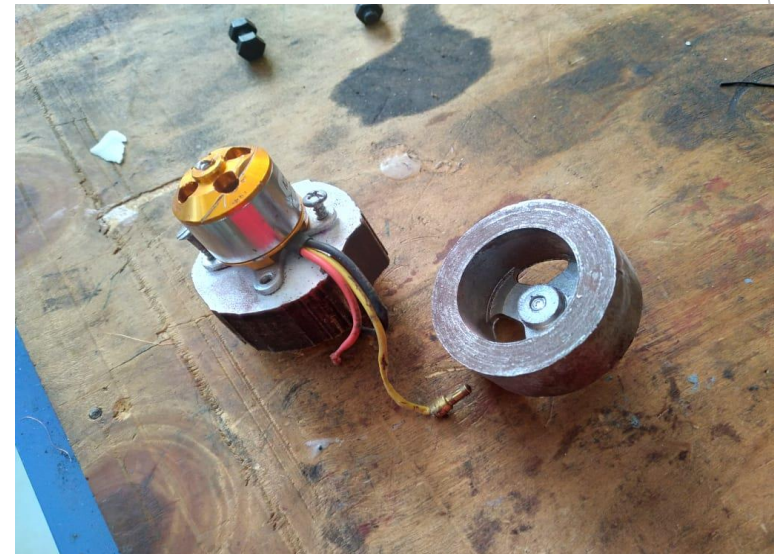
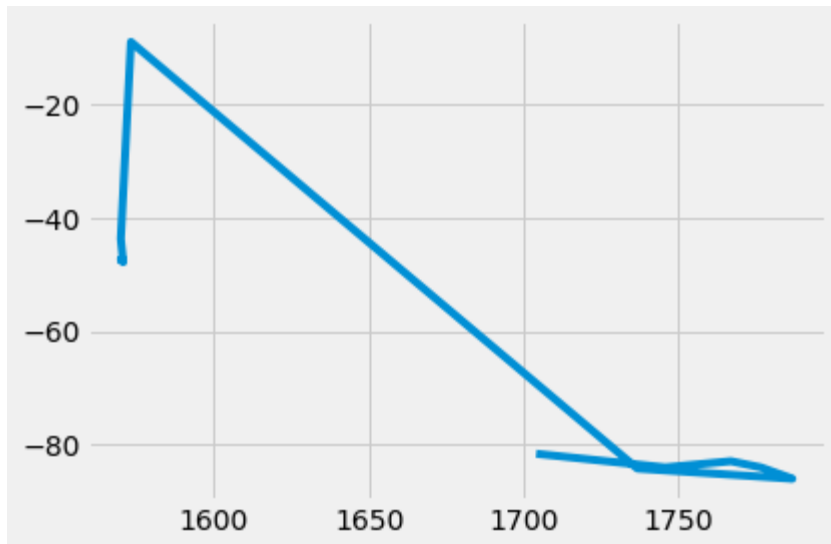
- ▶ Integrate flight control code with avionics code in onboard MCU
- ▶ Test reaction wheel for successful roll control during test launch

Flight Control Integration with Avionics

- ▶ Conflicts in Arduino libraries used for mpu6050
 - ▶ Avionics using Adafruit_mpu6050
 - ▶ Flight control using jrowberg/I2cdevlib/mpu6050 (offers useful functions for calibrating sensor, calculating roll, and Kalman filter)
- ▶ Code integration still in progress

Test Reaction Wheel during Test Launch

- ▶ Unable to test reaction wheel during flight due to incomplete code
- ▶ Reaction wheel used nonetheless for weight
- ▶ Motor broken during landing impact



Coming Week Tasks

- ▶ Complete code migration
- ▶ Replace destroyed components
- ▶ Test for successful roll control on test bench