May14-10 Weekly Report

MicroCART 2013-2014
Week 10: October 28-November 3, 2013
Advisors: Nicola Elia & Phillip Jones

Name	Weekly Hours	Running Hourly Total
Kevin Engel	3	52
Nathan Ferris	3	50
William Franey	5	51
Michael Johnson	3	49
Kelsey Moore	12	66
Lucas Mulkey	0	48
Aaron Peterson	4	52

Weekly objectives
Completed Objectives:
- Calibrated PID constants for a more stable quad
- Prepared for Tau Beta Pi presentation

Next Week Goals:
- Better understanding of VRPN for code to get data from cameras
- Finish code for grabbing IMU data

Issues/Concerns
>Will be in Boise Thursday-Sunday. Luke

Individual Accomplishments

Kevin Engel:
- Assisted with quad motor and PID constants testing.
- Continued reading about PID's.

Nathan Ferris:
- Helped get quad ready for presentation

- swapped out bad ESC and motor with Aaron, performance greatly increased.
- Used some of mike's basic C code and started converting matlab to C for practice.

William Franey:
- Assisted with PID constant testing
- Continued working on artificial data synthesis

Michael Johnson:
- Looked more into PID, assisted with tuning the quad's PIDs with rest of group.
- Thursday's presentation

Kelsey Moore:
- Worked with Dr. Jones to get a more favorable gain for a more stable quad flight using the GUI
- Looked to PID profile to stabilize quad for demo
- Worked with the IMU data reader and bluetooth communicator to receive data
- Worked with VPRN very little. Mostly just data gathering

Lucas Mulkey:
>Was travelling for interviews

Aaron Peterson:
- Last set of motor testing to determine what needs replaced.
- Replaced front left ESC and back left motor.
- PID testing with Jones and rest of group