May14-10 Weekly Report

MicroCART 2013-2014
Week 6: October 7-13, 2013
Advisors: Nicola Elia & Phillip Jones

Name	Weekly Hours	Running Hourly Total
Kevin Engel	5	33
Nathan Ferris	5	35
William Franey	6	36
Michael Johnson	6	36
Kelsey Moore	6	37
Lucas Mulkey	6	31
Aaron Peterson	6	34

Weekly objectives

Completed Objectives:
--Project Plan completed
--Tested James code on quad-copter
    -Seemed to start up the quad at max throttle
    -Tested manual commands for the controls and it didn't slow down or change direction
--Started looking at controls for Kalman filter testing

Next Week Goals:
-- need to talk to Luke to setup test for camera system and kalman filter (Nate)
-- BT Communication (Luke)
--Get James' Code to start piloting the quad

Issues/Concerns

-- question, are we able to gain administrative permission to download "eagle" software for iowa state computers? - my laptop continues to break, just wanted to know, it would be convenient.
-- Need some guidance on basic BT communication, will address tonight (Luke)

Individual Accomplishments

Kevin Engel:

- Tested Ground 2 with menu interface
- Developed Project Plan

Nathan Ferris:

- Looked at C code for PID controller, looked at Matlab code for Kalman. Helped write project plan. Looked into arducopter setup, need to assign RX and TX.
- Cleaned up desktop

William Franey:

- Read PWM, PPM document
- Looked at C code for Kalman filter and PID controller
- Made good understanding of Matlab Kalman Filter code

Michael Johnson:

- Tested Ground 2, still need to meet with James again after he cancelled this week
- Helped with the project plan
- Created a new branch on SVN with refactored base station code in a QT project, started using that code in last year's GUI.

Kelsey Moore:

- Tested ground2 with Micheal and Kevin
- Worked on Project Plan v1
- Helped with Bluetooth communication understanding

Lucas Mulkey:

- Project Plan
- (Finally) Was able to create a new project in eclipse
- Read through phjones/DEBUG_BT code

Aaron Peterson:

- Attached receiver onto arducopter with Nate and attempted to connect to controller; need to get manual that came with copter.
- Went over main concept of PID controllers