

EE/CprE/SE 492 - WEEKLY REPORT 13

December 14th - January 30th

Group number: may25-32

Project title: MicroCART mini: Microprocessor Controlled Aerial Robotics Team

Client &/Advisor: Dr. Phillip Jones

Team Members/Role:

- Daniel Zaucha: Client interaction, Communications Lead
- Jonah Upah: Hardware Lead, Team Secretary
- Ryan Lowe: Technical Advisor
- Yi Hang Ang: Software Lead

Break & Weekly Summary

Over the course of the Winter break, our team split up per our own personal plans, but we had a list of small goals that we wanted to accomplish in order to keep our brains focused and not lose time refocusing on the task at hand. However, we were limited in what we could accomplish due to the necessity of lab equipment that could not be brought away. We planned around this by assigning small tasks that could be accomplished without the equipment, and this ended up working out quite well for us.

During the starting week of the Spring 2025 semester, we met up and were able to discuss our progress over the winter break, and arrange our meeting times for the upcoming semester. As a group, we had been lacking group meetup coordination largely due to incongruencies to our schedules the previous semester when it was combined with limited availability during the weekends. Our new schedules allow us much better availabilities for meetings, such that we have given ourselves a hard-set 10 hours during which we will be meeting as a group to work on this project, while our similar schedules leave us much room to expand the duration of our activities.

Past week accomplishments

- Daniel Zaucha

- MP4 document clarifications
 - Need to show where and why the changes were made
- Variable clarification (General clarification similar to above)
- Jonah Upah
 - Teststand arduino.
 - Connecting it to the pc.
 - Looking at the arduino code.
 - Planning on how to connect it to the back end.
- Ryan Lowe
 - Gone over winter break, not able to work on anything
 - Work on MP4 Part 1 Code Audit
- Yi Hang Ang
 - Did not work during winter break
 - Working on Arduino with Jonah
 - Working on MP4 Part 1 Code Audit

Pending Issues/tasks

- Current semester wants/needs

Individual contributions

NAME	Individual Contributions	Hours this week	HOURS cumulative
Daniel Zaucha	<ul style="list-style-type: none"> ● Documentation updating ● Code Clarification 	8	77

Jonah Upah	<ul style="list-style-type: none"> • Arduino 		49
Ryan Lowe	<ul style="list-style-type: none"> • Code audit 	2	51
Yi Hang Ang	<ul style="list-style-type: none"> • Arduino work with Jonah • Code Audit 	W: 2	58

Plans for the upcoming week

- Daniel
 - Write down clarification - What/Why (ie Changelog it with comments)
 - Upload/send documents where they are needed
- Yi
 - Make progress on the Test Stand Arduino with Jonah
 - Finish up MP4 Part 1 Code Audit
- Ryan
 - Get MP4 Part 1 Code Audit completed as requested by Dr. Jones
 - Work with group to define semester goals and things we would like to work on
- Jonah
 - Learn how to find the usb socket and intake data.
 - Figure out how to edit the GUI.
- Group Plan:
 - Work through tasklist given by advisor
 - Create current semester timeline/goals

Summary of weekly advisor meeting

Our past state has been far too loose, and not meeting together as a group to work has definitely been an aspect of this. Creating a timeline for the upcoming semester and having a meeting plan that sufficiently works with all of us are going to allow a big improvement in regard to time spent on this project in regards to getting our larger goals done.

Website:

<https://sdmay25-32.sd.ece.iastate.edu/#teammembers>