

# Senior Design May 24, 32

## MicroCART Senior Design Team

### Week 5 Report

*September 18 - September 25*

*Faculty Advisor: Philip Jones*

#### Members:

Justin Kenny - Scribe

Steve Frana - Technical Lead

Trevor Friedl - Project Manager

Travis Massner

Clayton Kramper - Technical Lead

Will Maahs - Team Organization Lead

#### Links

- [Shared Google Drive Folder](#)

#### Summary of Progress this Week

So far we have had several meetings with our faculty advisor to begin discussing our project. We have been given a document outlining some introductory steps put together by last year's team. We have completed the week 1 objectives in the document (watching the introductory video and looking through the git repository).

#### Pending Issues

As a team we are still collectively working towards gaining key card access to our lab, where we might need to wait a few days after being accepted for the activation to kick in. We are also waiting to be sent the associated lecture videos to begin working on the lab that will introduce us to our project infrastructure.

As a group we lack experience flashing, booting, and flying our drones so we will practice with the crazyflie drone software to prepare for the FlyPi integration process. We have been tasked with brainstorming peripherals to utilize the added processing power of the FlyPi.

#### Individual Contributions

Member	Contributions	Weekly Hours	Total Hours
Justin Kenny	<ul style="list-style-type: none"> <li>● Watched the Introductory MicroCart Youtube video</li> <li>● Began getting familiar with the git repo</li> <li>● Watch Dr. Jones' control systems lectures</li> <li>● Worked on the Requirements assignment</li> </ul>	4	4
Steve Frana			
Clayton Kramper			
Travis Massner			
Will Maahs	<ul style="list-style-type: none"> <li>● Started watching videos Dr. Jones recommended from the YouTube channel</li> <li>● Started reading the MP4 Lab doc</li> <li>● Started exploring the Git repo</li> <li>● Worked on the requirements assignment as a group</li> </ul>	4	4
Trevor Friedl	<ul style="list-style-type: none"> <li>● Started to explore project contents, including GitLab repo, YouTube videos, previous year docs, etc.</li> <li>● Submitted access for lab 3050 in coover</li> <li>● Worked with group on requirements assignment</li> <li>● Started viewing first control system lecture</li> </ul>	3	3

## Comments and Extended Discussion

### Plans for coming Week

- Run through MP4 Lab as group
  - Clay and Steve have already completed this lab so they can help guide the rest of us.
  - The lab is divided into two parts, we aim to complete part 1 next week.
- Go over MicroCART overview videos from GitRepo/Youtube channel
  - While watching the videos, actively look for ways to improve them.
  - Organize youtube playlists
- Work on requirements, constraints, and standards engineering design document
  - Due Sunday September 24th on Canvas

- There will be an associated lightning talk assignment where we will need to create a 5 min powerpoint and present during lecture in class (also due Sunday Sept. 24th on Canvas).