Senior Design May 24, 32

MicroCART Senior Design Team

Week 8 Report

October 2 - October 9

Faculty Advisor: Philip Jones

Members:
Justin Kenny - Scribe
Steve Frana - Technical Lead
Trevor Friedl - Project Manager
Travis Massner - UI/UX Designer
Clayton Kramper - Technical Lead
Will Maahs -Team Organization Lead

Links

- [Shared Google Drive Folder](#)
- [Tentative Project Gantt Chart](#)

Summary of Progress this Week

We are finishing up MP-4, at least to the point where we are comfortable enough with the parts of the system we have been exposed to so far to move on. We have begun trying to look into the backend code and the different GUIs provided by watching videos and looking into the codebase to determine our plans moving forward. We have submitted the Engineering Project Plan assignment and we are going to begin the Design Document assignment.

Pending Issues

- We are trying to decide whether to put effort toward trying to make the Pycrocart GUI functional or fix the current crazyflie groundstation.

Individual Contributions

Member	Contributions	Weekly Hours	Total Hours
Justin Kenny	- Worked on Project Plan doc, slides, and recording - Finished Part II of MP-4. PID values are not perfect for a gamepad, but good enough to have a good understanding of the system. - Began watching videos for other parts of the architecture (Backend, GUI, etc.)	7	26
Steve Frana	- Watching more MicroCart youtube videos to understand backend - Helped some members with MP-4 code - Project Plan Lightning Talk - Project Plan Doc - Running and improving upon my implementation of MP-4 part 2 code	7	22
Clayton Kramper	- Working through MP-4, ready to begin pt2 - Project Plan Lightning Talk - Watched MicroCart YouTube videos - continued looking at the Git repo and videos	3	16
Travis Massner	- Working on MP-4 lab - Watched MicroCart YouTube videos for better understanding of project - Worked on project plan doc	6	19
Will Maahs	- Worked on better understanding PID loops - Finished MP4 part 1 - Started working through MP4 Part 2 - Continued exploring the Git repo - Started analyzing the crazy fly GUI code - gain understanding of the code - thinking of ways to improve it	5	13
Trevor Friedl	Moved high-level semester objectives of to GItLab issue board to track progress and organize progress and questions with respect to their issue	6	17

	● Still working through MP-4, ready to begin pt. 2 ● Looking to start investigating the backend a bit more this upcoming week ● Helped work with team to record and submit lightning talk for this week ● Planning to start adding information to the team website, though holds a lower priority than most current tasks		

Comments and Extended Discussion

Plans for coming Week
- Finish MP-4 **(High)**
- Watch remaining instructional videos in the bootcamp **(High)**
- Begin assigning issues to members **(High)**
- Begin running performance analysis on crazyflie groundstation on VM **(Medium)**
- Begin to consider changes to make for MP-4 lab documentation to push towards improvements **(Medium)**
- Determine current status of Pycrocart GUI **(Medium)**
- Add team information into the team website **(Low)**