

Senior Design May22, 43

MicroCART Senior Design Team

Week 11 Report

December 1 - December 7

Faculty Advisor : Philip Jones

Members:

Brandon Cortez - Team Lead, Test Station Sub-team

Reid Schneyer - Test Station Lead, Test Station Sub-team

Colton Glick - Git Wrangler, Firmware Sub-team

Ellissa Peterson - Tech Lead

Ryan Hunt - Firmware Sub-team Lead

Carter Irlmeier - Web Master

Zachary Eisele - Firmware/Groundstation Sub-team

Summary of Progress this Week

The majority of the team's work this week has gone into creating and finalizing the end of semester presentation.

Past Week Accomplishments

- Created firmware slides for presentation - Colton
- Created test stand slides for presentation - Reid, Brandon
- Updated documentation in Gitlab for creating parameters in the crazyflie firmware as well as debug printing. Plan to expand these firmware tips in the future - Colton
- Worked on Final presentation document and slides - Ryan
- Started writing control code - Ryan
- Completed team peer review - All members

Pending Issues

- No longer need temp_crazyflie_repo (<https://git.ece.iastate.edu/danc/temp-crazyflie-repo>), but don't have permission to delete it. Jones needs to delete it, settings > general > advanced > delete. I created this repo while trouble shooting.

MicroCART_Crazyflie_Firmware repo can also be deleted (https://git.ece.iastate.edu/danc/MicroCART_Crazyflie_Firmware), this was a pre-existing repo that was blank and unused, currently only has a copy of the stock Crazyflie firmware and will not be used - Colton

- Create a template for the student controller. Created good comments for what is used in the PID algorithms. - Colton, Ryan

Individual Contributions

Team Member	Contributions	Weekly Hours	Total Hours
Brandon Cortez	Final presentation and document work	4	50
Reid Schneyer	Created test stand slides + final doc	4	45
Colton Glick	- Final presentation work - Gitlab documentation - Worked with Ryan on documenting and understanding firmware - Completed team peer review	6	57
Ellissa Peterson	Fixing ground station GUI makefile	4	36
Ryan Hunt	- final presentation and report -writing control logic	6	46
Carter Irlmeier	Final presentation and document work	4	46
Zachary Eisele	-final presentation work -data logging on cf ground station	9	69

Comments and Extended Discussion

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Plans for coming Week

- Give final semester presentation this Wednesday
- Review presentation Jones sent
- Reevaluate assigned roles (meet once over break to do this?)

Summary of Weekly Advisor Meeting