

EE CprE 491 – May 20 - 49

CySat Senior Design Team

Week 34 Report

April 9, 2020 – April 15, 2020

Faculty Advisors: Phillip Jones

Team Members:

Bryan Friestad — *Team Lead / EPS Lead / OBC Lead*

Ryan Hansen — *SDR Lead*

Chase Kirchner — *Ground Station Lead*

Kyle Muehlenthaler — *UHF Lead / Ground Station Secondary*

Talon Stromgren — *Boost Board Lead / SDR Secondary*

Xiangzhu Yan — *ADCS Lead*

Past Week's Accomplishments

- OBC: Got issues with float printf not working figured out by adding a new linker flag
- ADCS: none
- SDR: none
- EPS: none
- Ground Station: Implementing proposed front-end mock up into ground station application (subsystem tab selection/buttons, etc)
- UHF: Working out the remote work details, should hear about how its come together tomorrow.
- Analog Components:

Pending Issues

- Still no round trip data radio communication
- Still don't understand what I'm seeing on the solar arrays
- Waiting on Remote System finalization

Individual Time Contributions

Team Member	Total Weekly Hours	Last Week Hours	Total Project Hours	Attend Gen. Meeting?
Bryan Friestad	7	3	233	yes
Ryan Hansen		4	190	no
Chase Kirchner	8	3	145	No
Kyle Muehlenthaler	3	6	171	No
Talon Stromgren	3	3	158	No
Xiangzhu Yan		6	159	no

Description of Work contributed

Team Member	Contribution
Bryan Friestad	Determined issue with discoboard float printf. Attended a meeting on functional checklists and assisted in critiquing them. Led advisor meeting where we discussed updated deliverables and finalized a plan for the boost board schematic. Submitted updated deliverables and started working on Final Poster. Held team meeting and attended CySat general meeting. Put together the first draft of cysat software team timeline.
Ryan Hansen	
Chase Kirchner	Implementing proposed ground station mock-up into the ground station application
Kyle Muehlenthaler	Working out the current code testing plans and how this will be accomplished
Talon Stromgren	Started working on testing boost board, encountered many problems. Working on PCB
Xiangzhu Yan	

Plans for Coming Week

- Bryan Friestad: Finalize timeline, make sure team is aware of tasks they need to perform. Start working on EPS handoff documents. Start to plan the sequence of events for “Mock” Mock Launch.
- Ryan Hansen:
- Chase Kirchner:
- Kyle Muehlenthaler: become familiar with the remote system for testing phases.
- Talon Stromgren: Double check to make sure the carrier board is ready to be printed, finish the boost board pcb.
- Xiangzhu Yan: