# EE CprE 491 – May 20 - 49
# CySat Senior Design Team
# Week 31 Report

*March 19, 2020 – March 25, 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:
- ADCS:
- SDR:
- EPS:
- Ground Station:
- UHF: wrote commands for pipe and beacon. [Kyle]
- Analog Components:

## Pending Issues

- Still no round trip data radio communication
- Still don't understand what I'm seeing on the solar arrays
- Classes are all online now
- Need Discovery board for testing

## Individual Time Contributions

| Team Member | Outside lab hours | Total Weekly Hours | Last Week Hours | Total Project Hours | Attend Gen. Meeting? |
|---|---|---|---|---|---|
| Bryan Friestad | 7 | 7 | 5.5 | 217 | yes |
| Ryan Hansen | 3 | 3 | 2 | 183 | no |
| Chase Kirchner | | | 0 | 126 | no |
| Kyle Muehlenthaler | 5 | 5 | 0 | 154 | no |
| Talon Stromgren | | | 1 | 144 | no |
| Xiangzhu Yan | | | 0 | 149 | no |

## Description of Work contributed

| Team Member | Contribution |
|---|---|
| Bryan Friestad | Added new documentation from EnduroSat and did some slight organization of files. Attended NASA call. Planning for remote work, setting up meeting/collaboration tools. Held a team meeting and attended CySat general meeting. |
| Ryan Hansen | I started setting up tools to work remotely on the project. Looked through some documentation in preparation for in-flight reprogramming. |
| Chase Kirchner | |
| Kyle Muehlenthaler | Added command for beacon shutoff, and pipe on and off. And began a more rigorous commenting and documentation mindset. Switching gears for the issue between kenwood and transceiver. |
| Talon Stromgren | |
| Xiangzhu Yan | |

## Plans for Coming Week

- Bryan Friestad: Talk with Talon about boost and carrier board revisions. Get a hold of discovery board from Talon. Test battery capacity code written over break. Start working on SD card code. Help chase nail down plans for GUI.
- Ryan Hansen: Research bootloaders to be used with the Endurosat computer. Work with Bryan on nailing down requirements.
- Chase Kirchner:
- Kyle Muehlenthaler: Talk with Dylan on the issues in communication and get a better understanding for myself.
- Talon Stromgren:
- Xiangzhu Yan: