

## **sdmay23-47: CyDAQ DSP Platform Firmware and Software Redesign**

Week 5 Report

October 24 - October 28

### **Team Members**

Wyatt Duberstein — *Engineer Lead*

Corbin Kems — *Engineer Lead*

Blake Fish — *GUI Lead*

Cole Langne — *Test Lead*

Long Zeng — *Firmware Lead*

Yohan Bopearatchy — *Firmware Lead*

Jens Rasmussen — *Project Lead*

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### **Summary of Progress this Report**

Software:

1. Created the CLI wrapper and added functionality from CLI tool
2. Tested CLI tool and created gitlab issues for new bugs found
3. Created a new gitlab pipeline
4. Made initial landing page on GUI

Hardware:

1. Continued working on getting dual core to work in SD card mode
  2. Continued Implementing CLI commands
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### **Pending Issues**

Software:

1. CLI tool has some reported bugs and needs some minor command improvements

Hardware:

1. Communication core needs to support all commands for CLI
  2. We need to find out how to transfer data fast enough between two cores
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### **Plans for Upcoming Reporting Period**

Software:

1. Finish CLI wrapper and create documentation for all methods
2. Fix reported bugs and round out testing to find new ones on CLI and CLI wrapper

Hardware:

1. Set up the firmware to support all of the commands in format
  2. Start testing the call & response with the front-end
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**Individual Contributions**

<b>Team Member</b>	<b>Contribution</b>	<b>Weekly Hours</b>	<b>Total Hours</b>
Wyatt Duberstein	Finished CLI wrapper and wrote some preliminary tests	4	0
Corbin Kems	Started CLI wrapper and wrote some preliminary tests	4	0
Blake Fish	Started designing interfaces, built one successful interface, and figured out how to connect the buttons to python functions	5	
Cole Langne	Implemented pipeline on git and started testing the CLI	4	
Long Zeng	Got dual core functionality to work, started implementing rick rolls	6	
Yohan Bopearatchy	Continued implementing cli commands to zybo	4	0
Jens Rasmussen	Continued learning pyqt and qydesigner, continued working on mocking up the UI	4	

**Gitlab Activity Summary**

Nothing to report.