

sdmay23-47: CyDAQ DSP Platform Firmware and Software Redesign

Week 8 Report

November 7 - November 11

Team Members

Corbin Kems — *GUI/CLI Dev*

Long Zeng — *Hardware Dev*

Wyatt Duberstein — *CLI Dev*

Blake Fisher — *GUI Dev*

Yohan Bopearatchy — *Hardware Dev*

Cole Langer — *CLI Dev/Testing*

Jens Rasmussen — *GUI Dev*

Summary of Progress this Report

Software:

- More GUI design components created.
- Implemented page switching in GUI.
- Created a build script.
- Created unit tests.
- Cleaned up CLI code.

Hardware:

- Continued merging functions from the old firmware to the new firmware.
 - Changed logic for some functions to speed up processing time.
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Pending Issues

Software:

- GUI resizing has no good solution yet.
- CLI tool needs some minor command improvements.

Hardware:

- Communication core needs to support all commands for CLI.
 - We need to find a way to increase data transfer speed.
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Plans for Upcoming Reporting Period

Software:

- Keep working on adding features to the GUI to complete the basic operation.
- Test and refine the CLI tool.

Hardware:

- Continue merging functions from the old firmware to the new firmware.
 - Research drivers that could increase data transfer speed.
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Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Corbin Kems	Implemented page switching in UI and created a build script to make future development faster.	4	0
Long Zeng	Changed the programming logic for some functions to speed up the processing time	4	
Wyatt Duberstein	Wrote some more official unit tests, cleaned up some more CLI code, and started with pyQT.	4	0
Blake Fisher	Designed components for the UI, continued to work on UI Layout.	4	0
Yohan Bopearatchy	Continued adding functions from the old firmware to the new firmware and changing them to run faster.	4	0
Cole Langer	Created and worked on testing plan.	4	
Jens Rasmussen	Continued to work on the GUI.	3	

Gitlab Activity Summary

