sdmay23-47: CyDAQ DSP Platform Firmware and Software Redesign
Week 3 Report
October 10 - October 14

Team Members

Wyatt Duberstein — *Engineer Lead*
Corbin Kems — *Engineer Lead*
Blake Fisher — *GUI Lead*
Cole Langner — *Test Lead*
Long Zeng — *Firmware Lead*
Yohan Bopearatchy — *Firmware Lead*
Jens Rasmussen — *Project Lead*

Summary of Progress this Report

Software:
Have a hello world program setup using PyQT
Finalized CLI tool for demo by fixing some bugs and cleaning up commands

Hardware:
Fixed the wrapper of the platform
Functional ICC
Fixed the dual-core branch, and merge into the current branch

Pending Issues

Software:
CLI tool had some strange data overlap during demo
CLI tool data collection produces some high values at the very end of data sampled

Hardware:
Communication core needs to form a valid communication with CLI
Communication core needs to support all commands for CLI
We need to find out how to transfer data fast enough between two cores

Plans for Upcoming Reporting Period

Software:
Start designing UI
Set up pipelines on gitlab

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

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours

Wyatt Duberstein	Worked on the finalization of the CLI for the demo at our weekly meeting, as well as began some code cleanup on the existing methods reused from the previous code	4	0
Corbin Kems	Prepared the demo, constructed most of the CLI interface and interaction	4	0
Blake Fisher	Researched more into PyQT and started coding to get familiar with the language/framework	4	0
Cole Langner	Started writing input tests for the CLI	4	0
Long Zeng	researched zybo dual proessor communication, implemented dual-core tests	8	
Yohan Bopearatchy	research zybo-cli command needs, started working on implementing cli commands to zybo	4	0
Jens Rasmussen	Researched pyqt, worked on overall design plan	4	

Gitlab Activity Summary
Nothing to report.

Commit statistics for master Sep 20 - Oct 13
Excluding merge commits. Limited to 2,000 commits.

master

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- Total: **33 commits**
- Average per day: **1.4 commits**
- Authors: **6**

Commits per day of month