

SE/EE/CPR E/CYB E 492 – Spring 2024

PrairieLearn Senior Design Team

Week 21 Report

April 19 - April 26

Faculty Advisors: Phillip Jones

Team Members:

Chris Costa - Auto-Drawing

Matt Graham - Emulator

Mitch Hudson - Technical Lead, QEMU Emulator

Carter Murawski - Note Taker, Emulator

Tyler Weberski - Project Manager, Auto-Drawing

Andrew Winters - ARM Assembly Auto Grading

Summary for Progress this Week

- Added UART functionality to the emulator
- Updated the emulator writeup
- Almost finished QEMU Timer implementation
- Worked on the final presentation, poster, and report

Past Week Accomplishments

- Attempted to change UART base addresses
- Edited the script to be silent and output to a file
- Finished H5_Q2B
- Finished PrairieLearn Auto-drawing documentation
- Started framework for the pl-rectangle element extension
- QEMU Emulator
 - Finished UART (See discussion)
 - Finished GPIO
 - Started Timers (See discussion)
- Completed official emulator writeup [PrairieLearn TM4C123GH6PM Emulator Writeup](#)

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Chris Costa	Worked on extension documentation, worked on the final presentation, poster, and report for class.	4	118
Matt Graham	Added UART0 and UART1 functionality to the emulator. Updated the emulator writeup. Worked on the final presentation, poster, and report. Added documentation to website	7	125
Mitch Hudson	Almost finished timers, still need to test.	15	328

	Didn't have much time to work on stuff this week due to other classes, so going to do write-up next week. Also worked on semester final presentation / doc		
Carter Murawski	Finished documentation and slides for Prairie Learn questions and assignments	5	110
Tyler Weberski	Finished H5_Q2b, Finished the Auto-Drawing documentation write-up. Finally I worked on the final report, final slides, final poster, and final demo video.	8	125
Andrew Winters			92

Comments and Extended Discussion

- N/A

Plans for Coming Week

- Transition from development to documentation
- Prepare for next year's group
 - Close all branches
 - Get documentation someplace accessible
- Update website before final presentation

Summary of Weekly Advisor Meeting

- Create Documentation on the different repositories
- Shift most of our effort to documentation
- Have one final wrap-up meeting during finals week