

SE/EE/CPR E/CYB E 492 – Spring 2024

PrairieLearn Senior Design Team

Week 18 Report

March 29 - April 5

Faculty Advisors: Phillip Jones

Team Members:

Chris Costa - Auto-Drawing

Matt Graham - Emulator

Mitch Hudson - Technical Lead, ARM Assembly Auto Grading

Carter Murawski - Note Taker, Emulator

Tyler Weberski - Project Manager, Auto-Drawing

Andrew Winters - ARM Assembly Auto Grading

Summary for Progress this Week

- Updated emulator writeup: [Emulator Writeup](#)
- Simplified emulator terminal output
- Configured emulator to use TM UART names
- Python register config system updates
- Wrote register rules for ADC
- Finished midterm bi-weekly report
- Continued work on QEMU emulator
- Moved stuff from other github repos to gitlab

Past Week Accomplishments

- Configured emulator environment and added to git
- Set up the emulator to be able to run any standard C file
- Completed emulator usage writeup
- Reviewed homework 8
- Reviewed homework 6
- Reviewed homework 11

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Chris Costa	Continued to work on drawing questions and progressed more through hw9	5	100
Matt Graham	Updated emulator writeup: Emulator Writeup , simplified emulator terminal outputs, configured emulator to use TM UART names, worked on getting emulator to run C files with UART	6	104
Mitch Hudson	Moved github stuff to gitlab Reworked register config system a little Added register config system to hw 8	14	249

	Wrote register rules for ADC Worked on midterm bi-weekly report Continued working on QEMU emulator		
Carter Murawski	worked on emulator configuration and started looking into more UART ports	4	94
Tyler Weberski	Ran into issues but connecting the c++ code into PrairieLearn, currently debugging. Past these issues also starting working on the UART configuration of the c++ stuff	8	98
Andrew Winters			77

Comments and Extended Discussion

- For QEMU emulator: would like a list of which devices are used by the class and which can be ignored

Plans for Coming Week

- Continue work on the emulator
- Continue to work through peer reviews and homework development

Summary of Weekly Advisor Meeting

- No notes were taken last week due to a large majority of team members being absent