EE/CprE/SE 492 Status REPORT 03

2/14/25 – 2/27/25
Group number: sdmay25-31
Project title: Implement Curriculum Around the i281 Processor
Client & Advisor: Prof. Alexander Stoytchev
Team Members:

      Ethan Uhrich - Team Lead & Treasurer
      Ariana Dirksen - Editor & Note Taker
      Tessa Morgan - Task Manager & Webmaster
      Gigi Harrabi - Client Interaction & Outreach Coordinator

Milestones Reached

Made adjustments for the final draft of the PC Lab(Lab 6), completed the instruction video for Lab 4 as well as the Lab 4 draft. Started work on Lab 9 and continuing work on Lab 5. Everyone was on track for the labs they were assigned and we wrapped up the first drafts of the ones we set out to. In our meeting with our client this week we will flesh out the next labs to work on.

Accomplishments Over the Period

Ethan Uhrich: Helped finish Lab 4 Rough draft. Started work on Lab 5 rough draft.
Ariana Dirksen: Finished Lab 4 Rough Draft & Instruction Video. Started work on Lab 5 rough draft. Continued editing Lab 6(PC Lab).
Tessa Morgan: Finished Lab 2 first draft and made changes to images for final draft of PC Lab.
Gigi Harrabi: Helped with some of Lab 2 rough draft, started Lab 9 and found parts.

Individual Contributions

NAME	Individual Contributions (Quick list of contributions. This should be short.)	Hours this week	HOURS cumulative
Ethan Uhrich	Helped finish lab 4 and worked on lab 5.	10	89
Ariana Dirksen	Finish Lab 4 Rough Draft & Instruction Video. Worked on Lab 5 prelab and editing Lab 6.	12	110
Tessa Morgan	Lab 2 rough draft.	17	104
Gigi Harrabi	Lab 9 rough draft, prelab and lab.	14	89

Plans for the Upcoming Week

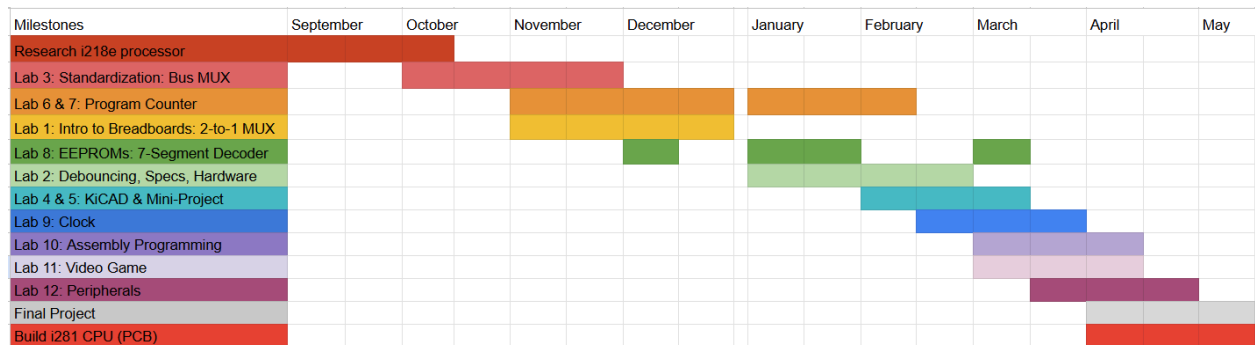Ethan Uhrich: Finish Lab 5 rough draft and video, order parts for Lab 9.

Ariana Dirksen: Finish Lab 5 rough draft, begin work on Lab 10, continue editing Lab 4 and 6 as needed.

Tessa Morgan: Continue work on EEPROM lab and potentially work on Clock lab with Gigi.

Gigi Harrabi: Continue working on both rough drafts(Lab 8 + 9).

Project Work

Updated Gantt Chart for adjusted priorities

Milestones	September	October	November	December	January	February	March	April	May
Research i218e processor	██	██							
Lab 3: Standardization: Bus MUX		██	██						
Lab 6 & 7: Program Counter			██	██	██				
Lab 1: Intro to Breadboards: 2-to-1 MUX			██	██					
Lab 8: EEPROMs: 7-Segment Decoder				██	██		██		
Lab 2: Debouncing, Specs, Hardware					██	██			
Lab 4 & 5: KiCAD & Mini-Project						██	██		
Lab 9: Clock						██	██		
Lab 10: Assembly Programming							██	██	
Lab 11: Video Game							██		
Lab 12: Peripherals								██	██
Final Project								██	██
Build i281 CPU (PCB)								██	██

Research

Looked into routing and some techniques used by the previous team to create their PCB for Lab 5. Also looked into how the components work together in the clock lab to decide what components to order for prototyping.