Chu Yi Aaron Herr
San Jose, CA 95112 | (599) 908-8784 | heraaronhotmail@yahoo.com | https://www.linkedin.com/in/aaron-her
https://github.com/SpinnerX

OBJECTIVE: Seeking internship in Embedded systems, as Embedded Software Engineer

EDUCATION

B.S., Computer Science May 2025
San Francisco State University, San Francisco, CA

A.S., Computer Science May 2023
Clovis Community College, Clovis, CA, GPA: 3.13

TECHNICAL SKILLS

Programing: C, C++, Java
Scripting: Python, Bash, Tcsh, Csh
Skills: Software Design Patterns, Agile, Scrum methodologies, Concurrency, multi-threading, parallel processing development, compile-time optimization
OS: Unix, Linux, Windows

WORK EXPERIENCE

University of California Berkey, Berkeley, CA September 2022 -September 2023

- Using C++'s Qt framework for implementing features and evaluated the applications that use MATLAB for the Bio-imaging center.
- Collaborated with mentor for developing further features improving interaction with their application's.
- Applied Software UI Design using QtCreator to focus implementing user interfaces for simpler UI Design.
- Using multi-processing approaches to solve issues that for the bio-imaging center, where users may have clusters of job subprocesses running.

PROJECT EXPERIENCE

6502 CPU Emulator Spring 2023 - present

- Using modern C++ to implement the 6502 8-bit cpu processor.
- Brainstormed and researched on how specifically the 6502 handles operations as instructions, memory management, etc.
- Designing the 6502 cpu data flow, as how data would be used and the different state of how this CPU may go through.

Logs.sh Bash Script, Clovis Community College Summer 2023

- Independently wrote a bash script for a professor's server.
- Created the script to help saved logs of student's progression when they are doing their assignments.
- Gained valuable knowledge and further familiarity with bash scripting in a Linux environment.
- Implementing this script allows students to revert to assignments previous version if accidentally been deleted.

Assembly Compiler Spring 2022

- Using C++ and ARM32 assembly to create a compiler translating into assembly, then assemble into an executable.
- C++ used as the tokenizer, and to interpret commands given to C++ that will be interpreted and handle by ARM32 in basic arithmetic and basic IO.