Chu Yi Aaron Herr

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**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.