

Chu Yi Aaron Herr

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<https://github.com/SpinnerX>

OBJECTIVE: Seeking internship as a Software Engineer in Embedded Systems.

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, Unix, Linux Scripting

Skills: Software Design Patterns, Agile, Scrum methodologies, Concurrency development, compile-time optimization, computer architecture, Operating Systems

OS Familiarity: Unix, Linux, Windows

WORK EXPERIENCE

University of California Berkeley, Berkeley, CA

September 2022 - Present

- Worked for the Advance bio-imaging center at UC Berkeley to develop applications using modern C++ along with the QT framework.
- Role involved working on problem solving and handling errors, such as race conditions with sub processes in a multi-threaded environment.
- Part of my role involved myself in scheduling meetings which allowed me to showcase my ability to work independent.
- Effectively communicating with mentor at meetings about release dates and deadlines, showcasing my ability to manage my time.

PROJECT EXPERIENCE

6502 CPU Emulator | Personal Project

Spring 2023 - present

- Implementing an 8-bit CPU the 6502, using modern C++ along with approaches of operating systems.
- Emulating the 6502 CPU, in a low-level environment displaying my understanding of how a CPU operates, control flow, how different CPU handles memory management operations, including how assembly are involved.

Logs.sh Bash Script | Clovis Community College

Summer 2023

- Script to autosave student's progress on their assignments if mistakes were made, can be reverted to previous version of the assignments for student's.
- Handles searching for anomalies in student's assignments, if there are any activity of copy and pasting.

Assembly Compiler

Spring 2022

- Using C++ to implement a basic compiler and using ARM32 in implementing the logic.

- Implementing C++'s stringstream's as the tokenizer parsing syntax commands.
- ARM32 assembly to implement basic operations such as I/O, basic arithmetic, and basic conditional operations.