

Chu Yi Aaron Herr

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<https://github.com/SpinnerX>

**OBJECTIVE:** Software Engineer in Embedded Systems who is seeking experiences and opportunities with 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, Python

**Skills** – CMake, Software Design Patterns, Agile, Scrum methodologies, Concurrency development, compile-time optimization, computer architecture, Operating Systems, GDB, automating scripting, terminal utilities for Unix and Linux OS

## 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 | GitHub

Spring 2023 - present

- Implementing an 8-bit CPU the 6502, including the fetch, decode, and executing cycles.
- Reading the 6502-microprocessor datasheet.
- Implementing instructions fetch specific opcodes to do specific operations.

### 6502 CPU Emulator | Personal Project | GitHub

- Reverse engineering the 6502 8-bit processor.
- Implementing the fetch, decode, and execute cycle for the 6502.
- Analyzing the 6502 microprocessor datasheet
- Representing the 6502 chip using a higher level language, C++.
- Project offered practical applications in looking to emulating an 8-bit processor chip.

### Libhal Framework | Opensource Contributor | GitHub

Summer 2023 - present

- Contributing to mentor's robotics framework Libhal in implementing common protocols such as CAN and UART.
- Implementing a driver serial port taking in N number of serial ports, that writes downstream of serial ports.