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**

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| --- | --- | --- | --- | --- |
| **B.S., Computer Science**  San Francisco State University, San Francisco, CA |  |  |  | May 2025 |
| **A.S., Computer Science**  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, FFMPEG, OpenGL, CMake  **OS Familiarity**: Unix, Linux, Windows  **WORK EXPERIENCE** |  |  |  | May 2023 |
| **University of California Berkey**, 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 in meetings allowing me to effectively be showing my abilities to work independently and communicate.

**PROJECT EXPERIENCE**

**6502 CPU Emulator | Personal Project**  Spring 2023 - present

* Implementing an 8-bit CPU the 6502, including the fetch, decode, and executing cycles.
* Utilizing the 6502-microprocessor datasheet.
* Control flow of how mnemonic opcodes work, including how instructions fetch specific opcodes to do specific operations.

**Algorithm Visualizer | Personal Project**  Spring 2023

* Implemented a visualizer using C++, to visualize graph theory algorithms.
* Learning about using mixtures of specific algorithms in use with graph theory, to visualize solving specific problems.