Chu Yi Aaron Herr

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<https://github.com/SpinnerX>

**OBJECTIVE:** Seeking internship as a Software Engineer in 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  **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 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.