

Chu Yi Herr

[in LinkedIn](#) | [559-908-8784](tel:559-908-8784) | [M heraaronhotmail@gmail.com](mailto:heraaronhotmail@gmail.com) | [Github](#)

Skills

- C | C++ | Java | Python | Git | CUDA | Agile | GDB | ARM32/64 Architecture
- Software Engineering | Linux Environment | Agile | Computer Architecture | Operating System | Compilers Design | OOP | CI/CD | Distributed Systems | Graphics Algorithms | Unit Tests | System Testing
- Robotics | Embedded Systems | Firmware | Communication Protocols (I2C, SPI, UART, IoT) | Embedded Design

Experience

Software Engineer	<u>UC Berkeley</u>	<i>Berkeley, CA, USA</i>	10/2022 - 04/2024
<ul style="list-style-type: none">• Developing the LLSM GUI applications for multiple platforms such as Mac and Linux using the latest technology C++, and Qt/QtCreator.• Implement scalable plugins back-end using Java and Javax and managed the UI design for those plugins.• Created multiple innovative solutions when tackling new problems on multiple projects increasing user-defined behaviors by 10 – 15%.• Hosted meetings discussing application requirements and software dependencies for workload balancing, software implementation, testing, and configuring metrics systems.• Continuous Integration/Deployment pipeline integration, pull requests, code reviews, load/stress testing, unit/integration/e2e testing.			

Education

Bachelor of Science	<u>San Francisco State University</u>	<i>San Francisco, CA</i>	05/2025
<ul style="list-style-type: none">• Major in Computer Science			
Associates of Science	<u>Clovis Community College</u>	<i>Clovis, CA</i>	05/2023
<ul style="list-style-type: none">• Major in Computer Science			

Projects

- **A-Compiler:** Designing own compiler called A-Compiler (C++, ARM64). Link to the [GitHub](#) (02/2024)
- **Libhal-Soft:** Porting over different drivers such as **lpc40**, **CAN**, **ADC**, **DAC** for adding support to different arm chips. Contributing to this Open-Source project. (12/2023)
- **NovaOS:** Developing an Operating System called NovaOS developed using **x86** assembly and **C/C++** (12/2023)
- **Holographic Projection:** Lead, designer, and developer of a class group project developing a holographic projector using multiple sensors to give it capabilities to interacting with users (03/2022)

Clubs

- **SJSU Robotics:** Member on the Intelligence Systems team. Role was calibrating firmware of the GPS, Compass, and Lidar sensors to help retrieve data for the autonomous rover navigation system using **Python**, implementing machine learning algorithms in an embedded environment.