





# Chu Yi Herr

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## Skills

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- C | C++ | Java | Python | x86/ARM assembly | JSON | MSSQL | OpenCL | CUDA | Robotics | Redux | NoSQL | Git | Agile |
- FFmpeg | RTOS | CI/CD | JUnit | Cucumber | Device Drivers | Unit Testing | Lambda | OOP | Audio Processing | Game Development
- Embedded Systems | Distributed Systems | Firmware | Arduinos | Communication Protocols (I2C, SPI, UART)

## Experience

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### Software Engineer

### UC Berkeley

Berkeley, CA, USA

10/2023 - 04/2024

- Discussed in designing and developing UI applications for the end-user, increasing usability by 10 – 15% using the latest technologies of C++, Qt, and QtCreator.
- Implement scalable plugins back-end using Java and Javax and managed the UI design for those plugins.
- Developing LLSM GUI applications for multiple platform's such as Mac and Linux.
- Hosted meetings and discussions on identifying application requirements, and software dependencies to workload balancing, software implementation, test, and configuring different metrics systems.
- Continuous Integration/Deployment pipeline integration, pull requests, code reviews, load/stress testing, unit/integration/e2e testing.

## Education

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### Bachelor of Science

### San Francisco State University

San Francisco, CA

01/2024 – 05/2026

- Major in Computer Science

## Projects

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- **ENGINE3D**: Creator of a 3D Game Engine (C++, Open). Link to [Github](#) showcasing the display of engine's capabilities **(01/2023)**
- **Libhal-Soft**: Porting over different drivers such as lpc40, CAN, ADC, DAC for adding support to different arm chips. **(12/2023)**
- **NovaOS**: Creator, designer, and developer of an Operating System called **NovaOS** developed using x86 and C **(12/2023)**
- **Holographic Projection**: Lead, designer, and developer of a class group project developing a holographic projector for computer architecture using C++, in using multiple sensors to give it certain interactions to users using Raspberry Pi and Arduino. **(03/2022)**
- **Chat App**: Developer of a Chat Application that uses python and socket programming to develop a local chat application allowing users to login and communicate via local network. **(12/2022)**

## Clubs

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- **SJSU Robotics**: Collaborated with a team and collaborated multiple sensors firmware for reliable data acquisition. Combining multiple data sources to enhance perception to enabling robust navigation by 20% in challenging environments. In preparation to the SARS rover competition.