

Alistair Keiller

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EDUCATION

University of California, Irvine

Bachelor's of Science, Computer Science

- Cumulative GPA: 3.96/4.0 | Dean's Honor List

Irvine, CA

September 2024 — June 2028

Stanford Online High School

High School Diploma

- GPA: 3.95/4.0 | 23 university-level classes

Redwood City, CA

September 2020 — June 2024

WORK EXPERIENCE

Chief Technology Officer (part-time)

Invibratrac

May 2024 — Present

San Diego, CA

A stealth-mode startup developing medical devices, founded by a serial entrepreneur and thoracic surgeon.

- Built prototype in 3 months to secure angel funding round.
- Lead Full-stack Engineer creating an intelligent medical device product.
- Manage a 5 person technology team.
- Created embedded frontend in Rust and Iced, and asynchronous embedded backend running in Tokio.
- Developing natural language processing and speech recognition that run locally on Orin Nano.

Full-Stack Engineering Intern

Emeritus

June 2022 — September 2022

San Diego, CA

Emeritus collaborates with more than 80 top-tier universities to make high-quality education accessible and affordable worldwide. Time Magazine World's Top EdTech Company of 2024 (emeritus.org)

- Full-Stack Engineer on a 25-person international software engineering team.
- Created a full demo web interface showcasing new concepts; helped resolve issues with the main interface.
- Learned from a world-class DevOps process
- Proactively implemented Emeritus' first reproducible development environment, making it easier to share projects within the team.

AI Engineering Intern

AlwaysAI

June 2020 — September 2020

San Diego, CA

An early leader in providing real-time insights through Vision AI (alwaysai.co)

- Created an application for retail and manufacturing that detects when people are unmasked or not socially distanced, and runs on inexpensive edge hardware.
- Developed an application for ubiquitous consumer drones to detect trash type and quantity while flying overhead.

PUBLICATIONS

- A. Keiller, "An Approach to Reduce Computational Load: Precalculating Gain Matrices for an LQR Controller of a Four-Axis Manipulator Using State Space Kinematics." 2023.
 - Published in arXiv and TechRxiv.

LEADERSHIP & EXTRACURRICULARS

President

UCI F1Tenth

September 2024 — Present

Irvine, CA

- Built F1Tenth race car, including LiDAR, stereo cameras, IR, and a custom voltage regulator.
- Created a reinforcement learning model using Isaac Lab.

Embedded Lead

UCI Formula SAE Electric Racing

September 2024 — Present

Irvine, CA

- Won second place at shootout (the best we've done in 4 years)
- Programmed a uniquely cost-effective data collection and visualization pipeline.