

# Kyle Fernan

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## PROFESSIONAL SUMMARY

Dedicated and resourceful individual seeking experience in the Engineering design industry to be able to make use of my creative, collaborative, and leadership skills. I have a deep passion for detail, striving to provide the best possible result for the given task not only from myself, but from those around me as well.

## EDUCATION

**University of California, Irvine** - Irvine, CA

09/2022 - Current

Cumulative GPA: 3.72/4.0

B.S. Mechanical Engineering with a Specialization in Mechanical Design, Minor in Business Management - Junior Standing

Notable Courses: MATLAB, Statics, Solidworks, Business Management

**Benicia High School** - Benicia, CA

09/2018 - 06/2022

Notable Courses: Advanced Engineering, AP Calculus BC, AP Statistics, AP Computer Science Principles

**Diablo Valley College** - Concord, CA

06/2019 - 05/2021

Notable Courses: ENGTC-126 (Computer Aided Design and Drafting)

## WORK HISTORY AND EXPERIENCE

**Anteater Formula Racing** - Irvine, CA

07/2023 - Current

*Human Interface Design Engineer*

- Review, optimization, and fabrication of previous iterations of UCI's FSAE car's seat and firewall
- Arrangement and maintenance communications with various other subteams to ensure proper function and prevent interference

**UC Irvine Biorobotics Laboratory** - Irvine, CA

*Undergraduate Research Assistant*

04/2023 - Current

- Led the design and prototyping of a haptic stimulation device intended to provide sensation to patients' feet during rehabilitation for a horizontal stepping robot designed to roll up to the beds spinal cord-injured patients
- Analysis and development of the Finger Extension Trainer (FET), a bi-manual rehabilitative device for non-human primates, to find components which can be improved upon, and designing such solutions in Solidworks

**Howe Neat Inc. (Agricultural Technology)** - Benicia, CA

*Hardware Technician/Intern*

01/2022 - 09/2022

- Manual assembly and testing of electronic components
- Set-up and maintenance of 3d printers and Pick and Place machine for production
- Programmed and performed quality checks on circuit boards assembled by automated Pick and Place

**Quickly Benicia (Drink Shop)** - Benicia, CA

07/2020 - 01/2022

*Assistant Manager/Barista*

- Management of communications between business owner and employees
- Training of new hires by leading them through their first few shifts, ensuring their acquisition of relevant skills
- Appointed shift leader, providing the team hands-on assistance with customers when necessary

## SKILLS AND INTERESTS

- Engineering and Design (Fusion360, CSWA Certified Solidworks, MATLAB, C++)
- Extensive experience with fabrication, especially with 3d printed and electronic components
- Proficient in Microsoft Office (Word, Excel, Powerpoint)
- Strong written, oral, and interpersonal communication skills
- Leadership and teamwork skills leading to comfort in both collaborative and independent environments