

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 passion for detail, particularly in product design and user experience, striving to provide the best possible result for the given task from myself and from those around me as well.

EDUCATION

University of California, Irvine - Irvine, CA 09/2022 - Current

B.S. Mechanical Engineering with a Specialization in Mechanical Design, Minor in Business Management - Junior Standing
Cumulative GPA: 3.72/4.0 | Notable Courses: MATLAB, Statics, Solidworks, Electric Circuits, 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, fabrication, and ergonomic optimization 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 Researcher

04/2023 - Current

- Led the design and prototyping of a haptic stimulation device intended to provide sensation to patients' feet during rehabilitation with a horizontal stepping robot intended for spinal cord-injured patients. Placed emphasis upon physiological factors within the design to optimize somatosensory stimulation, ease of use, and comfort.
- 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 Product Design (CSWA Certified Solidworks, Finite Element Analysis, Design for Assembly, Functional Dimensioning, Technical Drafting and Documentation, 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