Jennifer Tang

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EDUCATION

Bachelor of Science in Mechanical Engineering Irvine, CA | Jun 2023
University of California, Irvine
Relevant Courses: Computer-Aided Design, Intro to Engineering, Intro to Thermodynamics, Intro to Engineering Computations

SKILLS

Programs and Hardware: Solidworks, Microsoft Visual Studio, Microsoft Office, Arduino, Raspberry Pi
Machining Tools: Bandsaw, Belt Sander, Drill Press, Hole Saw, Soldering
Programming Languages: C#, HTML, MATLAB, LaTeX

WORK EXPERIENCE

UC IRVINE BIOROBOTICS LAB | Undergraduate Research Assistant Irvine, CA | Sep 2021 – Present

- Contributed to the development of a robot by allocating 100+ trials of data to better understand stroke patients and their proprioception.
- Engineered user-friendly interfaces that facilitate independent data-collection for physical therapists, while verifying patient safety.
- Strengthened knowledge of current research by parsing academic articles on the effect of strokes on gait deviation.

UC IRVINE TELEPHONE OUTREACH PROGRAM | Student Caller Irvine, CA | Jun 2021 - Present

- Handled 150+ fundraising calls per day, engaging with alumni and students to encourage support for programs and departments at UC Irvine.
- Presented detailed, personalized, and friendly service to answer queries regarding fund allocation, ensuring satisfaction from high-level donors.

MATHNASIUM | Assistant Center Director Irvine, CA | Jan 2021 – Feb 2022

- Educated K-12 students in specialized math subjects such as Linear Algebra, Calculus, and SAT Prep, while monitoring students academic progress and consulting with parents and guardians.
- Facilitated a team of 10 tutors to foster a motivating and positive working environment for students to academically excel.
- Headed customer service inquiries and enrollment requests through advertising and managing online marketing promotions.

PROJECTS

FSAE ELECTRIC RACING AT UC IRVINE | Embedded Systems Engineer Irvine, CA | Apr 2022 - Present

- Corresponded with other Embedded Systems Engineers to develop a Body Control Module for an Electric Vehicle.
- Verified code functionality for a Hall Effect Sensor in order to accurately determine and display the speed of a vehicle.
- Documented test cases on the development of a CAN-Bus System to establish proper connectivity between micro-controllers and devices in the vehicle.

SAMUELI INTERDISCIPLINARY RESEARCH IN PODS (SIRIPODS) | Researcher Irvine, CA | Summer 2021

- Conceptualized a research question, drafted a written proposal, and presented my own research at the end of the program.
- Devised a research experiment to quantify the movement of patients with Parkinson's Disease, to monitor progression of stages and determine suitable treatment with motion capture.
- Received 3rd place in competition.