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EDUCATION

University of California, Irvine, Irvine, CA
BS in Mechanical Engineering

Aug 2023 – Jun 2027

WORK EXPERIENCE

ZotBotics, Self-Leveling Anteater Project (SLAP)

Jan 2026 – Present

Mechanical Engineer

- Designing and fabricating gearbox prototypes for a quadruped robot using 3D printing to validate gear mesh and housing tolerances.
- Iterating on internal drivetrain components to ensure smooth power transmission before transitioning to machined aluminum parts.
- Collaborating on the mechanical assembly of the "Spot-like" anteater chassis to integrate motor mounts and actuators.

Engineers for a Sustainable World (ESW), Beach Cleanup Rover Project

Oct 2025 – Present

Mechanical Lead

- Collaborating on a 3D-printed, four-wheel-drive rover designed to collect beach litter and promote environmental sustainability.
- Designing the mechanical subsystem in SolidWorks, including treaded drivetrain, scooping mechanism, and sand-sifting vibration system.
- Integrating sensors and developing an AI-enabled camera system for future autonomous navigation.

Engineering Student Council (ESC), Corporate Affairs Member

Oct 2025 – Present

- Coordinated and executed professional development events (e.g., networking nights, speaker panels) connecting engineering students with industry professionals.
- Organized technical skill-building workshops and company engagement sessions that supported student career development.

Boca Pizzeria, Server, Corte Madera, CA

2022 – 2024

- Managed and prioritized tasks for up to 15 tables simultaneously in a fast-paced, time-critical environment.

PROJECTS

Robotic Arm

Oct 2025 – Present

- Designing, 3D-printing, and assembling a custom Arduino-controlled robotic arm.
- Programming the arm for competitive tasks including max-weight lifts, cup-stacking, and automated bottle opening and pouring.
- Optimizing hardware and software in a team of 7 to enhance the arm's competitive performance.

CAD Design

Apr 2025 – Jun 2025

- Modeled Mazda Miata in SolidWorks and performed FEA to evaluate structural performance.
- Developed animations and motion studies to illustrate component interactions and system functionality.

Walking Robot Project

Apr 2025 – Jun 2025

- Designed a walking robot in SolidWorks, creating detailed 3D models of all components.
- Fabricated custom parts by 3D printing plastic components and laser-cutting wooden elements.
- Assembled and tested the robot, achieving successful walking motion through mechanical integration.

SKILLS

- **Programming:** Python, Matlab, SolidWorks, Arduino, R, Excel
- **Software:** Excel, Solidworks, Orcaslicer, Bambulab, Labview, Coolterm
- **Fabrication:** 3D Printing, Laser Cutting