

# Saman Lotfizad

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## EDUCATION

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

Aug 2023 – Jun 2027

*BS in Mechanical Engineering*

## WORK EXPERIENCE

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

Oct 2025 – Present

### *Mechanical Subteam*

- 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.
- Streamlined service by coordinating front-of-house and kitchen staff to boost efficiency and reduce errors.
- Resolved customer issues in real-time by quickly identifying problems and implementing effective solutions.

## PROJECTS

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**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

- Created a full 3D model of a Mazda Miata in SolidWorks, dedicating 30+ hours to perfect advanced surface modeling and assembly features.
- Conducted stress testing with finite element analysis (FEA) to evaluate structural performance under load.
- 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

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- **Software & Programming:** Python, Matlab, SolidWorks, Arduino (C++), RStudio, Excel
- **Analysis:** Finite Element Analysis (FEA)
- **Fabrication:** 3D Printing, Laser Cutting