

# ALEXANDER MASSOUMI

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## SUMMARY

Motivated mechanical and aerospace engineering student with a strong foundation in engineering principles and a passion for innovation. Seeking an internship to apply theoretical knowledge in a hands-on environment and contribute to team success. Passion for aeronautics, aviation, and pushing the frontiers of space exploration.

## EDUCATION

**University of California-Irvine, Irvine, CA** Expected Graduation 2027

- *B.S., Mechanical Engineering, B.S. Aerospace Engineering*
- *GPA 3.75*
- *Dean's Honor List 2023 - present*

**Saddleback College, Mission Viejo, CA** 06.2024-09.2024

- *Automotive Fundamentals Course*
- Automotive mechanics course that included the operation and repair of modern automobiles, automotive tools, and diagnostic equipment

## PROJECTS

**Autonomous Rover, Class Project, Introduction to Engineering II** 01.2024 - 03.2024

- Utilized Arduino programming in C, 3d printing, and laser cutting to construct an autonomous rover capable of tracking a line and retrieving an object at its destination.

**Engineering Student Council, LIFETANK, Irvine, CA** 01.2024 - 04.2024

- Designed and built a prototype for a wildfire fighting drone, equipped with a working fire detection system.

**RC Rover, Class Project, Introduction to Engineering I** 09.2023 - 12.2023

- Built and designed a rover and its steering system using a servo motor to control the steering system and a receiver/transmitter to control the rover.

**Website, Independent Project, anmassoumi.github.io** 03.2024 - present

- Using HTML and CSS, I designed and coded my website on VS Code to showcase my projects.

## WORK EXPERIENCE | VOLUNTEER EXPERIENCE | LEADERSHIP EXPERIENCE

**UC Irvine Parking and Transportation Services, Anteater Express Operator, Irvine, CA** 08.2024 - present

- Class B licensed Anteater Express bus driver. Responsible for the inspection and safe operation of shuttle service buses at UC Irvine. Responsible for the safety and well-being of 250+ passengers per shift.

**Engineering Student Council, UC Irvine, CA** 10.2023 - present

*General Member (10.2024 - present)*

- Advocate for the educational, social, and professional advancement of the engineering community at UCI. Create networking and research opportunities with other organizations and businesses.

*Leader in Freshman Engineering Member (10.2023 - 05.2024)*

- First year undergraduate engineering student group focused on gaining leadership and engineering project experience through engaging events.

**Galileo Camps, Irvine, CA** 06.2022 - 08.2024

*Lead Instructor (06.2024 - 08.2024)*

- Led STEM sessions for children, designing hands-on projects and lesson plans to enhance learning. Fostered an inclusive environment, inspiring creativity and curiosity in campers.

*Summer Intern (06.2022 - 08.2023)*

- Managed office and behind-the-scenes operations, streamlining administrative tasks and logistics. Collaborated with staff to ensure camp success and engaged with campers to address needs and maintain a positive atmosphere.

**First Touch Soccer, Head Coach, Long Beach, CA** 02.2022 - 05.2022

- Responsible for coaching summer camps and pick-up games for children. Provided mentoring and skill training.

**AYSO, Volunteer Youth Coach, Los Alamitos, CA** 09.2021 - 06.2023

- Coached teams of boys ages 7-10. Prepared and conducted all team practices. Strategized for games, created an environment of camaraderie and motivated kids to play their best.

## TECHNICAL SKILLS

- *Software:* MATLAB, Arduino, CSS, HTML, SolidWorks, Microsoft Office, Python
- *Hardware:* 3D Printing, Laser Cutting, Fabrication Machinery
- *Skills:* Machine Learning, Critical Thinker, Highly Motivated, Organized