ALEXANDER MASSOUMI

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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

FPV Drone, *Independent Project*, UAVs @ UCI   10.2024 - present
- Conducted research on unmanned aerial vehicle (UAV) components and custom-built a first-person view (FPV) UAV. Learned FPV freestyle, honing advanced flight control techniques, in order to successfully pilot the UAV.

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

Sigma Gamma Tau Member, *National Aerospace Engineering Honor Society*, UC Irvine, CA   10.2024 - present
- Inducted into Sigma Gamma Tau, the National Aerospace Engineering Honor Society, for academic excellence and leadership in the field of aerospace. Required to be top one-fifth of the sophomore class to be invited.

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
Faculty Engagement Committee (10.2024 - present)
- Promote student-faculty interaction for the educational, social, and professional advancement of the engineering community at UCI. Create networking and research opportunities with other organizations, businesses, and faculty.

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