

ALEXANDER MASSOUMI

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EDUCATION

University of California-Irvine, Irvine, CA <ul style="list-style-type: none">B.S., Mechanical Engineering, B.S. Aerospace EngineeringInformation and Computer Science, Minor	Expected Graduation 2027
Saddleback College, Mission Viejo, CA <ul style="list-style-type: none">Automotive Fundamentals CourseAutomotive mechanics course that included the operation and repair of modern automobiles, automotive tools, and diagnostic equipment	06.2024-09.2024

PROJECTS

Curtiss JN-4 Biplane, Senior Design Project, Flying Leatherneck Aviation Museum <ul style="list-style-type: none">Collaborating to build a scale replica of the Curtiss JN-4 "Jenny" biplane, interpreting engineering drawings, analyzing structural components, and assisting in the fabrication and assembly of the fuselage.	03.2025 - present
Fixed-Wing Aircraft, Design Project, Fixed-Wing Innovation Project <ul style="list-style-type: none">Collaborated in the design, 3D printing, and flight testing of a fixed-wing UAV for a multidisciplinary aerospace competition focused on additive manufacturing, flight performance optimization, and structural integrity.	01.2025 - present
FPV Drone, Independent Project, UAVs @ UCI 10.2024 - present <ul style="list-style-type: none">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 Robot, Class Project, Mechanical & Aerospace Engineering 106 <ul style="list-style-type: none">Utilized Arduino programming in C, 3d printing, and laser cutting to construct an autonomous rover that used a piston as propulsion and ackerman steering system, with a magnetometer, limit switch, and solenoid in measurement assistance.	01.2024 - 03.2024
LIFETANK, Engineering Student Council, Irvine, CA <ul style="list-style-type: none">Designed and built a prototype for a wildfire fighting drone, equipped with a working fire detection system.	01.2024 - 04.2024
RC Rover, Class Project, Introduction to Engineering I <ul style="list-style-type: none">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.	09.2023 - 12.2023
Website, Independent Project, anmassoumi.github.io <ul style="list-style-type: none">Using HTML and CSS, I designed and coded my website on VS Code to showcase my projects.	03.2024 - present

WORK EXPERIENCE | VOLUNTEER EXPERIENCE | LEADERSHIP EXPERIENCE

MD Anderson Cancer Center, Radiation Oncology Research Intern, Houston, TX <ul style="list-style-type: none">Working in the Department of GI Radiation Oncology, contributing to research and clinical efforts focused on advanced imaging, precision radiotherapy, and translational approaches to treating cancers of the digestive system. Gaining hands-on experience at a world-renowned cancer center known for their ground-breaking research and cutting-edge technologies.	03.2025 - 09.2025
MotoGP, Track Marshal, Circuit of the Americas, Austin, TX <ul style="list-style-type: none">Served as a track marshal for the 2025 MotoGP at the Circuit of the Americas through the Sports Car Club of America (SCCA) and MotorsportReg, supporting real-time race operations, rider safety, and incident response with teams in their pit-lane garage.	03.2025 - present
Sigma Gamma Tau, National Aerospace Engineering Honor Society Member, UC Irvine, CA <ul style="list-style-type: none">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.	10.2024 - present
UC Irvine Parking and Transportation Services, Anteater Express Operator, Irvine, CA <ul style="list-style-type: none">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.	08.2024 - present
Engineering Student Council, UC Irvine, CA <ul style="list-style-type: none">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.	10.2023 - present
Galileo Camps, Irvine, CA <ul style="list-style-type: none">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.	06.2022 - 08.2024

TECHNICAL SKILLS

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