

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, MinorCertified Solidworks Associate (Mechanical Design)	Expected Graduation 2027
Saddleback College, Mission Viejo, CA <ul style="list-style-type: none">Automotive Fundamentals CourseAutomotive mechanics course covering modern vehicle operation, repair, tools, and diagnostics	06.2024-09.2024

PROJECTS

Curtiss JN-4 Biplane, Fuselage Engineer, 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, Fuselage Engineer, 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
Transit Bus Design: CAD Assembly & FEA Analysis, Class Project, MAE 52 <ul style="list-style-type: none">Created CAD model of a transit bus in Solidworks with motion and performed FEA analysis to find maximum loading.	09.2024 - 12.2024
FPV Drone, Independent Project, UAVs @ UCI <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.	10.2024 - present
Autonomous Robot, Class Project, MAE 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
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 to apply precision engineering and computational modeling techniques to support cancer research. Conducting data collection and analysis to inform data-driven decision making, developing experimental tools, and leveraging complex algorithms to enhance research accuracy.	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, Microsoft Office, Python
- Hardware:** 3D Printing, Laser Cutting, Fabrication Machinery
- Skills:** Machine Learning, Critical Thinker, Highly Motivated, Organized