

ARIAN SALARI

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Education

University of California, Irvine, Honors Mechanical Engineering B.S. **Fall 2026**
Irvine Valley College, Mechanical Engr, Dean's List, Honors Program, GPA 3.95 **Aug 2024 – May 2026**

Relevant Coursework

- CAD Techniques
- Material Analysis
- Manufacturing Processes
- Computer Programming
- Engineering Prototyping
- Statistics and Analysis
- Business and Economy
- AI, Machine Learning
- Physics 4A, 4B, 4C
- Calculus 1, 2, 3
- Linear Algebra
- Differential Equations

Experience

Orange County Science and Engineering Fair **Nov 2023 – Mar 2024**
Biomechanical Shape-Memory Alloy Research *Irvine, CA*

- Conducted a personal research project to develop a functioning biomechanical human hand using shape-memory alloys (Nitinol) as an actuator.
- Explored methods to mimic natural hand motion.

Symposium Researcher **Sep 2024 – Mar 2025**
Medical Device Research and Development *Irvine, CA*

- Researched and proposed NEHP (Normothermic Ex-Vivo Heart Perfusion) as a novel testing platform to enhance artificial heart valve validation in realistic, body-like conditions.
- Incorporated direct guidance from an R&D engineer at Edwards Lifesciences to assess current industry standards, identify limitations in FDA-approved testing methods, and refine research direction.
- Presented original findings at the IVC and Saddleback research symposiums, demonstrating improved test realism, ethical advantages, and long-term device reliability using NEHP-perfused pig hearts.

Rezvani Motors **Jan 2025 – May 2025**
Mechanical Engineering Intern *Irvine, CA*

- Shadowed the engineering team in design reviews, model analysis, and technical discussions of structural integrity to better understand mechanical systems used in high-performance vehicles.
- Collaborated with engineering team on aerodynamic evaluations and mechanical system layouts to support performance optimization in vehicle development while applying theoretical engineering concepts to real-world scenarios.
- Asked critical questions, contributed to, and gained exposure to cross-functional business operations including supply management, production logistics, and company-wide workflows.

Orange County Science and Engineering Fair **Aug 2021 – May 2022**
Aircraft Winglet Aerodynamics and Efficiency *Irvine, CA*

- Collected and analyzed performance data comparing no-winglet, sharklet, and split-scimitar designs, demonstrating measured reduction in airflow vibration with the split-scimitar winglet.
- Applied statistical comparison methods to validate results across repeated trials and quantify aerodynamic efficiency differences between each configuration.
- Earned Second Place in Fluids and Aerodynamics in the California Research Competition, recognized for statistical methodology, analytical rigor, and innovative aerodynamic testing.

Extracurricular

President, STEM Club IVC **Mar 2025 - May 2026**

- Lead all club operations and meetings, organizing guest speaker events with STEM professionals, hands-on project workshops, and technical development sessions.
- Developed programming that strengthened members' engineering, research, and problem-solving skills while exposing students to internships, research, and STEM career pathways.

Vice President, Computer Science Club IVC **May 2025 - May 2026**

- Oversaw club operations with the President and coordinated weekly events including guest speaker sessions, technical workshops, and career development activities
- Led workshops that strengthened members' programming foundations and problem-solving across Python and Java.
- Connected students with hackathons, internships, and networking or research opportunities.

Phi Theta Kappa Honors Society Member **August 2025 - May 2026**

- Participated in weekly meetings on discussions, analytical inquiry, and data-driven problem solving across STEM.
- Engaged with peers and faculty mentors to explore research methodologies, statistical analysis approaches, and evidence-based decision making within honors-level projects.

Technical Skills

Languages: Python, C, C+, HTML/CSS, JavaScript

Experience: Visual Studio, IntelliJ, AutoCAD, SolidWorks, MATLAB, Microsoft Word, Excel, Scrum Master Certified