

SCOT HIGHLANDER

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EDUCATION

Bachelor of Science in Mechanical Engineering

University of California, Riverside

June 2026

GPA: 3.2/4.0

Relevant Coursework: Design of Mechanisms, Thermodynamics, Mechanical Behavior of Materials, Optics and Lasers in Engineering

Honors & Awards: Dean's Honor List (2022, 2023), Bourns Foundation Engineering Scholarship (2022-2025)

TECHNICAL SKILLS

SolidWorks, ABAQUS, MATLAB/Simulink, AutoCAD, PSpice, C/C++, Python, 3D Printing and Prototyping, Modeling and Simulation, Mechanism Design, Geometric Dimensioning and Tolerancing (GD&T), Autonomous System, Requirement Matrix, Process Flow Maps, Value Stream Mapping, Design FMEA

INTERN EXPERIENCE

Engineering Intern

Parker Aerospace, Irvine, CA

June 2025- August 2025

- Conducted research and development to enhance Parker Aerospace's fuel injection systems
- Designed and tested physical prototypes to analyze system parameters
- Modified and optimized **MATLAB** files and graphical user interfaces (GUIs) using Pro/ENGINEER (**Pro-E**)
- Streamlined data analysis by identifying correlations between system parameters and optimizing testing processes

PROJECTS

Senior Design Project, UC Riverside

Three-Wheeled Vehicle Design Team Project

March 2025-Present

- Collaborate with 5 team members to design and validate an automated 3-wheeled vehicle
- Design powertrain and drivetrain systems utilizing **AutoCAD** models and FEA simulations

Mechanics of Materials Course, UC Riverside

Centrifugally Stiffened Solar Sail, NASA

September 2025-December 2025

- Designed and modeled a self-deploying solar sail prototype with three team members
- Utilized **SolidWorks** to construct composite boom deployment mechanism prototype, achieving 10% lower weight
- Tested the prototype in a thermal-vacuum chamber simulating space conditions

LEADERSHIP EXPERIENCE

Housing Services, UC Riverside

Resident Advisor

September 2025-Present

- Foster personal development within a diverse community of 550 residents, ensuring adherence to community standards, and addressing security concerns during crises.
- Serve as the Leadership Advisor to the students and participate in training programs on inclusive diversity practices
- Recruit and interview future resident advisors as part of a selection committee

Bourns College of Engineering, UC Riverside

College of Engineering Ambassador

September 2025-Present

- Provide tours to prospective students, organize recruitment events and arrange on-campus interviews
- Represent the College of Engineering in a public relations role while greeting industry representatives

PROFESSIONAL AFFILIATIONS AND INVOLVEMENT (Optional)

UC Riverside

American Society of Mechanical Engineers (ASME)

September 2024-Present

Tau Beta Pi, National Engineering Honor Society

September 2024-Present

Pi Tau Sigma, Mechanical Engineering Honor Society

2024, 2025