

SCOT HIGHLANDER

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EDUCATION

Bachelor of Science in Mechanical Engineering University of California, Riverside June 2025

- **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

Software & Programming: ViewLogic, SolidWorks, ABAQUS, MATLAB/Simulink, AutoCAD, PSpice, C/C++, Python

Operating Systems: Windows, MacOS, Unix, Linux

Engineering Techniques: 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 2024- August 2024

- 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 2024-December 2024

- Designed and modeled a self-deploying solar sail prototype with three team members
- Constructed 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 2024-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 2024-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 2022-Present

Tau Beta Pi, National Engineering Honor Society September 2022-Present

Pi Tau Sigma, Mechanical Engineering Honor Society 2022, 2023