

SCOT HIGHLANDER

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EDUCATION

Bachelor of Science in Mechanical Engineering University of California, Riverside June 2024

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

Honors & Awards: Dean's Honor List (2021, 2022), Bourns Foundation Engineering Scholarship (2021-2024)

TECHNICAL SKILLS

Software: ViewLogic, SolidWorks, ABAQUS, MATLAB/Simulink, AutoCAD, PSpice

Programming: C/C++, Python

Operating Systems: Windows, Apple macOS, Unix, Linux

INTERN EXPERIENCE

Engineering Intern Parker Aerospace, Irvine, CA June 2023- August 2023

- Conducted research and development on enhancing Parker Aerospace's fuel injection system
- Designed physical test housings to analyze various system parameters
- Modified and optimized various MATLAB files and graphical user interfaces utilizing Pro-E
- Streamlined data analysis procedures by identifying correlations between system parameters and optimizing test processes

MECHANICAL ENGINEERING EXPERIENCE

Senior Design Project, UC Riverside

Three-Wheeled Vehicle Design Team Project January 2024-March 2024

- Collaborate with 5 engineers to design and prove the concept of a fully automated three wheeled vehicle
- Design and strategically configure the necessary mechanical and electrical components to test the model

Mechanics of Materials Course, UC Riverside

Centrifugally Stiffened Solar Sail, NASA September 2022-December 2022

- Created full scale concept of a self-deploying solar sail with three team members
- Constructed and modeled prototype deployment device for testing aboard the International Space Station

LEADERSHIP EXPERIENCE

Housing Services, UC Riverside

Resident Advisor September 2023-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 2023-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 2021-Present

Tau Beta Pi, National Engineering Honor Society September 2021-Present

Pi Tau Sigma, Mechanical Engineering Honor Society 2021, 2022

National Society of Collegiate Scholars (NSCS) 2021, 2022