

SCOT HIGHLANDER

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OBJECTIVE

To secure the Mechanical Engineer I position with Northrop Grumman.

EDUCATION

University of California, Riverside

December 2020

Bachelor of Science, Mechanical Engineering

Study Abroad: Automotive Engineering, University of Sussex, Brighton, England

June 2019-September 2019

TECHNICAL SKILLS

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

Programming: JAVA, C/C++

Operating Systems: Windows XP/NT, Unix (BSD, Solaris, Linux)

MECHANICAL ENGINEERING EXPERIENCE

Senior Design Project, UC Riverside

Three-Wheeled Vehicle Design Team Project

October 2020-December 2020

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

Parker Aerospace, Irvine, CA

Mechanical Engineering Co-op

January 2020-June 2020

- Performed research and development on Parker's fuel inerting system
- Designed physical test housings to analyze various system parameters
- Modified and reprogrammed various MATLAB files and graphical user interfaces utilizing Pro-E
- Reduced data in efforts to determine useful correlations between system parameters for specified tests

Mechanics of Materials course, UC Riverside

Centrifugally Stiffened Solar Sail, NASA

September 2019-December 2019

- 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 2018-June 2020

- Facilitated the personal growth of 550 residents, encouraged and enforced the compliance of community standards, and addressed various security issues in crisis situations
- Served as the Leadership Advisor to the students and participated in training on inclusive diversity practices
- Recruited and interviewed future resident advisors as part of a selection committee

Bourns College of Engineering, UC Riverside

College of Engineering Ambassador

January 2018-June 2020

- Provided tours to prospective students, organized recruitment events and arranged on-campus interviews
- Represented the College of Engineering in a public relations role while greeting industry representatives

PROFESSIONAL AFFILIATIONS AND INVOLVEMENT

UC Riverside

American Society of Mechanical Engineers (ASME)

September 2018-Present

Tau Beta Pi, National Engineering Honor Society

September 2018-Present

Pi Tau Sigma, Mechanical Engineering Honor Society

2018, 2019

National Society of Collegiate Scholars (NSCS)

2018, 2019