

# SCOT HIGHLANDER

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**OBJECTIVE:** Seeking Mechanical Engineer I position with Northrop Grumman

## EDUCATION

**B.S., Mechanical Engineering,** University of California, Riverside

June 2008

## 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

Parker Aerospace, Irvine, CA

April 2007-Present

### **Mechanical Engineering Co-op**

- Performing research and development on Parker's fuel inerting system
- Designing physical test housings to analyze various system parameters
- Modifying and reprogramming various Matlab files and graphical user interfaces utilizing Pro-E
- Reducing data in efforts to determine useful correlations between system parameters for specified tests

Senior Design Project, UC Riverside

January 2007-June 2008

### **Three-Wheeled Vehicle Design Team Project**

- Collaborated with five 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

Mechanics of Materials course, UC Riverside

Fall 2007

### **Centrifugally Stiffened Solar Sail, NASA**

- Designed 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

## WORK EXPERIENCE

Housing Department, UC Riverside

September 2003-June 2005

### **Resident Advisor**

- 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

## LEADERSHIP

UC Riverside

January 2007-June 2008

### **College of Engineering Ambassador**

- 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)**

**Tau Beta Pi**, National Engineering Honor Society

**Pi Tau Sigma**, Mechanical Engineering Honor Society

**National Society of Collegiate Scholars (NSCS)**