

## EDUCATION

**University of Southern California, Los Angeles, CA**

B.S. in Astronautical Engineering

May 2016

### Relevant Coursework:

- Engineering Economics • Aero-Mechanical Design • Mechoptronics • Database Systems

## TECHNICAL SKILLS

- Microsoft Office • MySQL • Oracle • SolidWorks • Python • MATLAB • HTML

## PROFESSIONAL EXPERIENCE

**USC Space Engineering Research Center** – *Research Associate* Feb 2016-May 2016

- Designed and assembled air bearing free flight platforms for CubeSat testing
- Repaired bell-jar vacuum tables to a  $10^{-5}$  Torr capability

**American Contemporary Ballet** – *Office Manager*

June 2014-July 2015

- Directed operations by handling scheduling, permits, payments, ticketing, reception, press, and staff for performance runs with 500 audience members
- Developed organizational structure to facilitate a 15% donation increase per year

**ATK Advanced Weapons** – *Intern*

May-August 2009

- Integrated, tested, and presented potential hardware alterations to senior engineers for future implementation
- Drafted models and created drawings in Pro-E CAD tool

## CERTIFICATIONS

**Engineer-in-Training** – *NCEES (License: 158788)*

Jul 2016-Present

**SolidWorks Associate** – *(License: C-H88EDNXVB6)*

Jan 2010-Present

## PROJECT EXPERIENCE

**Senior Design Project** – *LA Coliseum Thermometer Automation*

Aug-Dec 2012

- Devised an analog control system to align a large thermometer needle
- Fabricated system as proof of design on a mock-up needle

**CAPSTONE Design Project** – *Launch & Capture Coordinator*

Jan-May 2011

- Modeled a spacecraft and mission capable of removing 10 pieces of orbital debris for under \$400 million
- Handled debris capture method, payload layout, and launch profile for mission

**USC Rocket Propulsion Laboratory** – *Team Member*

Aug 2008-May 2010

- Crafted carbon fiber and fiberglass rocket bodies via wet and dry layups
- Machined tooling with horizontal lathe, drill press, and milling machine

## LEADERSHIP

**USC Trojan Marching Band** – *Drum Major ('12-'13)*

Aug 2008-July 2015

- Trumpet Section Leader ('11-'12) & Trumpet TA ('13-'15)

**Wright Family** – *Representative/Documentarian*

Dec 2002-Present

(Great-Great Grandnephew of Orville and Wilbur Wright)

- Keynote speaker at Smithsonian, EAA, and Seattle Museum of Flight events
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