

# Aerospace Armstrong

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## EDUCATION:

University of Southern California

### **Bachelor of Science, Aerospace Engineering**

Expected May 2018

- Presidential Scholar: Received half tuition scholarship
- Viterbi Fellow, Boeing Scholar, W.V.T. Rush Honors Program, USC Deans List

GPA: 3.65

## SKILLS

MatLab: Intermediate

Arduino Microcontroller: Beginner

Siemens NX: Intermediate

C++: Beginner

Solidworks: Beginner

Microsoft Office: Advanced

## WORK EXPERIENCE:

### **Rocket to Space Inc., Rocket Flight Specialist**

Nov 2014 – Present

- Built and launched rockets with a student led team by strategically designing flight vehicles and integrating avionics and solid propellant grains into them
- Focused on carbon fiber and composite manufacturing techniques producing motor cases, fins, and heat dissipating nose cones

### **Pump Refinery Inc., Technology Analyst**

Nov 2014 – Present

- Evaluate aerospace startup companies based on their technologies and business models
- Network with established corporations at pitch events and formal meetings to help the company connect with new clients which has led to a 50% increase in new clientele

## PROJECTS

### **Langauge App, Product Engineer**

Sept 2016 - Present

- Collaborate with a team of three to design a language translation app
- Pitched app to tech investors in a competition where company was voted as the best of nine companies

### **SR20 Airfoil Design, Geo Solver**

Nov 2016 - Dec 2016

- Modeled a full SR20 airfoil with a team of engineers to conduct finite element analysis on its flap attachment mechanism, determine stresses on its geometry, and redesign it as required

### **Two Way Speakers**

Oct 2016 - Dec 2016

- Built a set of two way speakers by combining a woofer and tweeter with a custom crossover
- Designed their housing to optimize the frequency range response and cost

## LEADERSHIP EXPERIENCE

### **Viterbi Student Ambassador, University of Southern California**

May 2016 – May 2017

- Collaborated with top engineering students and created multimedia content to show prospective students what engineering means at USC and led them through the admission process

### **American Institute of Aeronautics and Astronautics, Chair Member**

Nov 2014 - Present

- Collaborate with peers to put on technical lectures, host networking events, and plan tours of prominent aerospace companies in Los Angeles for USC students to learn more about the industry

### **The Museum of Flight, Tourguide**

June 2015 - Aug 2015

- Led technical tours of the Space Shuttle FFT Crew Compartment to spread my knowledge and passion for air and space flight and the science behind them with guests

### **Longboard Club USC, Vice President & Founder**

August 2015-May 2016

- Marketed new club to students which led to the addition of over 65 new members
- Planned joint events with skateboard company sponsors to connect experienced long boarders and teach new ones how to ride safely