

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

Language 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