

EDUCATION

University of Southern California, Los Angeles, CA

May 2016

B.S. in Astronautical Engineering

- Relevant Coursework:
 - ASTE-480 Spacecraft Dynamics May 2016
 - AME-301 Dynamics Dec 2015
 - AME-309 Dynamics of Fluids May 2015
 - ASTE-470 Spacecraft Propulsion Dec 2014
- Organizations: Rocket Propulsion Lab | USC Marching Band – Drum Major ('12-'13)
- Projects: \$400M orbital debris removal mission | Coliseum thermometer automation

ROCKETRY PROJECT EXPERIENCE

Liquid Rocket Test Stand, Compton, CA

Jan 2019-Present

Data Acquisition & Project Management

- Design and implement concurrent thrust, temperature, and pressure measurements as part of a test stand capable of accommodating liquid rocket engines of up to 2,000 lbf
- Maintain bill of materials, set meeting dates and agendas, and coordinate short-term goals

High Power Rocket – “Charlie Horse”

Jan 2016-Present

Tripoli & NAR Level 1 & 2 Certification

- This phenolic and wood, 38mm motor high power rocket has flown 10 times to date, and was used to complete level 1 & 2 certifications with Tripoli and NAR
- Accessories include dual deployment parachutes, GPS tracking, and onboard cameras

USC Rocket Propulsion Laboratory

Aug 2008-May 2010

Team Member

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

PROFESSIONAL EXPERIENCE

Cross Spectrum Acoustics

Nov 2019-Present

Associate Engineer

- Analyze and predict noise and vibration levels for rail, highway, and aircraft projects through field measurements and modeling via programs such as Excel and MATLAB

ATS Consulting

Feb 2017-Nov 2019

Associate Engineer

- Noise and vibration consulting for transit projects

MEMBERSHIPS & SOCIETIES

Reaction Research Society | Rocketry Organization of California | Tripoli Rocketry Association
National Association of Rocketry | Experimental Aircraft Association

Hobbies: 3D Printing | Private Pilot | Brewing Beer | Gardening | Video Games | USC Football
