

THOMAS CHESTER

www.thomaschester.space

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EDUCATION

Arizona State University
Ira A. Fulton School of Engineering
B.S.E. Mechanical Engineering

Expected Graduation: Spring 2019
GPA: 3.3 out of 4.0
Dean's List Spring 2017

EXPERIENCE

Masten Space Systems

Intern - Mojave, CA

Fall 2017 (Upcoming)

- Assisting with the development, testing and upkeep of vertical takeoff/vertical landing liquid propulsion rockets as well as the development and testing of the upcoming Broadsword 25,000lbf engine
- Spending 50% of time working as ground crew for flight testing operations and 50% of time working with engineers on projects related to the flight vehicles and engines

Orbital ATK, Inc.

Senior Engineering Intern - Promontory, UT

May 2017 - Present

- Materials & Processes Design Engineering department in the Propulsion Systems Division: Solid rocket booster development for NASA's Space Launch System
- Developing and testing the propellant liner and insulation system's relevant properties and characteristics
- Material characterization and analysis, engineering test plans & reports, Digital Image Correlation and Structured Light work, engineering test performance & evaluation, and solid modeling with NX

Qualastat Electronics, Inc.

Intern - Chandler, AZ

May 2016 - August 2016

- Assembled and tested fiber optic cables and cable assemblies for various customers
- Strength tested cables, used SolidWorks to design and 3D print cable bend outlines, assisted in the optimization of the manufacturing process, and learned the mechanical design aspect of the cables

LEADERSHIP & ACTIVITIES

Fulton Undergraduate Research Initiative

Undergraduate Researcher

August 2016 - May 2017

- Ongoing university-sponsored research project focused on developing a sounding rocket to record data on fin flutter in order to determine the ideal fin geometry for reducing flutter
- Worked alongside Daedalus Astronautics to develop experimental rocket motors for the test flights

Daedalus Astronautics ASU

Solid Propellant Team Lead

August 2014 - Present

- Lead a team of 8 members on different projects throughout each academic school year, focusing on the testing and development of solid rocket propellant
- Organize and lead propellant strand burning and mixing in preparation for live static test fires
- Participated in multiple team-built competition rocket launches and hybrid rocket propellant research projects

SKILLS

Software/Languages
Hand Tools/Machine Shop

MATLAB, NX, SolidWorks, HTML, LaTeX, Inventor, Excel with VBA
Mill, lathe, 3D printing, laser cutting, band saw, welding, soldering