

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: May 2018
GPA: 3.3 out of 4.0

EXPERIENCE

Orbital ATK, Inc. - Propulsion Systems Division
Senior Engineering Intern - Promontory, UT

May 2017 - Present

- Materials & Processes team: Solid Rocket Booster development for NASA's Space Launch System
- Focus on the propellant liner and insulation system and propellant characterization
- Solid modeling with NX, engineering test plans & reports, engineering test performance & evaluation, and material characterization & analysis

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

Salt River Project
Intern - Tempe, AZ

May 2014 - August 2015

- Inspected and organized the replacement and reinforcement of city-wide power distribution infrastructure
- Received SRP special recognition award for exemplary work accomplished during internship

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

MATLAB, NX, SolidWorks, HTML, LaTeX, Inventor, Excel with VBA

Hand Tools/Machine Shop

Mill, lathe, 3D printing, laser cutting, band saw, welding, soldering