

JARED ELIJAH PYRON

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United States Citizen

EDUCATION

Bachelors of Science, *Aerospace Engineering*
University of Tennessee, Knoxville, Tennessee

Graduated May 2018
GPA: 3.75

- **Senior Design Cryogenic Rocket** Summer 2017
Assisted in the construction and testing of a NASA-sponsored small-scale 500 pound cryogenic rocket motor intended for use in launching microsattellites into orbit. Gained experience in cryogenic plumbing and hybrid rocket design.
- **Senior Design Fuel Analysis** 2017-2018
Recorded and analyzed the performance of various fuel compositions burned in a thrust stand, both in simulations and live experiments, to create a detailed performance comparison matrix for use in larger scale hybrid rockets.

WORK EXPERIENCE

University of Tennessee Space Institute, Tullahoma, Tennessee
Undergraduate Research Assistant Internship

Summer 2016

- **TALon Research Facility Design**
Performed virtual simulations to determine the best configuration of not yet built wind tunnel components and created a data matrix for conditions determined by experimental work on already existing components.
- **High Speed Wind Tunnel Research**
Performed experimental tests in a Mach 2 blowdown wind tunnel facility using high-speed cameras for the purpose of analyzing supersonic airflow characteristics over various surfaces.

ACCOMPLISHMENTS

- Recipient of Volunteer Scholarship to University of Tennessee at Knoxville.
- Member of Pride of the Southland Marching Band for four years.
- University of Tennessee Deans List: 2014-2018.
- President of high school marching band.
- Member of Tau Beta Pi Engineering Honor Society.

ACTIVITIES

- American Institute of Aeronautics and Astronautics member.
- Starting player on varsity high school soccer team for four years.
- Member of church orchestra for six years.
- Wheelchair ramp construction with Neighborhood Helpers Volunteer Ministry

SKILLS

Microsoft Office, MATLAB, SOLIDWORKS, Tecplot, Pointwise, CFD++, Java, Linux, supersonic wind tunnel operation, 3D printing, instrument calibration, thrust stand operation, cryogenic plumbing.