WILLIAM GULLIVER

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EDUCATION

BS in Mechanical Engineering, Aerospace emphasis   **expected Spring 2021**
University of State
GPA: 3.86; Major GPA: 3.95

RELEVANT EXPERIENCE

Research Assistant   **July 2019–present**
Advanced Physics Lab

- Collaborated on development of Python code for the post-processing of Split-Hopkinson-Pressure-Bar compression test data.
- Implemented new methods for windowing data for fast Fourier transformation.
- Researched the Hough Transformation and how it can be used as a signal analysis method to effectively window data prior to fast Fourier transformation.
- Present regularly to professor and research group.

Research Assistant   **May 2019–present**
Integrated Modeling Lab

- Wrote Python code for post-processing Crack Mouth Opening Displacement vs Cycles of Digital Image Correlation data.
- Collaborated to develop Python code to generate finite element models that can be batch tested to obtain values for maximum stress intensity factors of materials.
- Aided in the creation of code to effectively manage data produced by high-throughput testing.

SKILLS

Software and Programming

- UNIX/Linux
- Python
- C
- MATLAB
- Arduino
- Certified SOLIDWORKS Associate
- Windows 10
- Adobe Photoshop
- Adobe Illustrator
- Microsoft Office

Laboratory

- Experience with various test stands for compression, tensile, torsion, and bending tests.
- Familiar with Split-Hopkinson-Pressure-Bar dynamic testing.
- Trained for micro-scale production of strain gages using UV masking with Nanofab.

HONORS

Undergraduates Research Opportunities Program Grant   October 2020
Tau Beta Pi Engineering Honor Society   2019–2020
Dean's List   2018–2020