

Matthew Maybee

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EDUCATION

The University of Alabama in Huntsville

Bachelor of Science in Aerospace Engineering, Minor in Mathematics

Huntsville, AL

May 2023

- GPA: 3.865/4.0

EXPERIENCE

Propulsion Research Center

Undergraduate Researcher

Huntsville, AL

present

- Assisting Dr. John Bennewitz in fundamental detonation physics and acoustically coupled combustion research towards applications for rotating detonation rocket engines.

NASA SLI Competition Senior Design

Payload Team Member

Huntsville, AL

present

- Designing and fabricating a payload to comply with NASA SLI requirements.
- Working with team members to prototype, fabricate, test, and launch a small-scale rocket.

Summer Community of Scholars

Research Project

Huntsville, AL

2022

- Designed and developed a compliant mechanism trailing edge flap design.
- Co-authored and presented poster summarizing research.

University of Alabama Drone Day

Presenter

Huntsville, AL

2022

- Gave presentation on the development of a trailing edge flap with a compliant mechanism and its applications to fixed-winged unmanned vehicles.

Applied Aerodynamics and Flow Control Lab

Undergraduate Researcher

Huntsville, AL

2022

- Assisted Dr. Konstantinos Kanistras in CAD designing and Ansys Mechanical simulation.
- Developed and simulated winglet and trailing edge flap designs employing a compliant mechanism for use in a morphing wing.

Coleman Worldwide Moving

Mover

Huntsville, AL

2021-2022

- Responsible for packing and unpacking customer's belongings.

Bedford County Schools

Grounds Crew, Custodian

Shelbyville, TN

2016-2020

- Responsible for lawn maintenance and cleaning at several local schools

Nash Family Farms

Farmhand

Chapel Hill, TN

2019

- Herded and milked dairy cattle

TECHNICAL SKILLS

Programming Languages: MATLAB, Python, c, HTML

CAD/FEA: Solid Edge, Solid Works, Ansys Spaceclaim, Ansys Mechanical, AutoCAD

Microsoft Office: Word, PowerPoint, Excel