Emma Strong

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Education

The University of Alabama,	Tuscaloosa, Alabama
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B.S. Aerospace Engineering	May 2020	3.48 GPA
M.S. Aerospace Engineering and Mechanics	July 2021	3.44 GPA

Dean's List - Spring 2019, Fall 2019 | President's List - Spring 2020

Relevant courses: Aerodynamics, Aerospace Structures, Finite Element Analysis, Engineering Modeling, Orbital Mechanics, Space Environment, Space Propulsion, Space Systems, Spacecraft Dynamics & Control

Senior Design Project: Designed and built a stereoscopic camera package with robotic extension to take measurements of the previously unexplored Marius Hills Skylight on the Moon

Skills

- Proficiency: SolidWorks CAD, MATLAB, Excel, Microsoft Office Specialist •
- Basic proficiency: C++, Python, Systems Tool Kit, Abagus FEA, Hypermesh, SimScale CFD, Machining •

Extracurricular Activities

- UA Space Design Team •
 - o Planned and gathered resources to design, build, and launch a CubeSat through NASA's ELaNa Program
 - Led the logistics operation allowing processes to run smoothly
 - Performed preliminary research into CubeSat systems and thermosphere environment
 - Developed teamwork, communication, and problem-solving skills

Theta Tau – Professional Engineering Fraternity •

- Member of the Mu chapter of Theta Tau, a professional engineering fraternity
- Reconstructed and reimplemented database of member information into our new website 0
- Fostering and developing service, interpersonal, and professional skills
- Crimson Racing Formula SAE Design Team •
 - Assisted in the design of the body, aero systems, and cooling shroud for the CR18 race car 0
 - Iteratively designed components using CAD software and basic aerodynamic principles to achieve design goals
 - Led the design of the electrical instrumentation systems of the go-kart project
 - Explored the functionality and design of automotive data acquisition systems
- AIAA Professional Engineering Society

August 2016 – Present

May 2019 - August 2019

- Member of the American Institute of Aeronautics and Astronautics
- Networking with industry professionals and gaining insight into the aerospace industry as a whole 0

Work Experience

- **Online Course Technical Support** •
 - College of Continuing Studies University of Alabama
 - o Provided friendly and personable technical support for students and professors
 - Investigated and provided solutions to complex technical issues

Fireworks Salesperson

- Uncle Sam's Fireworks Shreveport, LA
- Demonstrated ability to be flexible and compromising in customer-facing operations 0
- Sorted, organized, and packed explosives for transport 0

Dec. 2017 – Dec. 2020 (seasonal)

February 2019 – August 2019

August 2018 – December 2020

January 2017 – December 2017