**Megan A. Jordan**

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Undergraduate Student Education

**The University of Alabama Huntsville**

* Aerospace Engineering Major - Expected Graduation Fall 2023

**Engineering Work Experience /Projects (2019–Present)**

**Amazon Prime Air – Brooke Owens Fellow Summer 2022**

* As a Mechanical Hardware development Intern on the Electric Propulsion team my main deliverable was to assist my team with lab buildout by designing and iterating on both current and future hardware to improve the functionality of the propulsion stand. Tasks included:
  + Utilizing Catia 3DX to design and implement a functional single-strut test set-up on the propeller stand
  + Design a machined propeller hub to retrofit former vehicle propellers and mount any new features
  + Iterate on motor housing design for motor thermal and vehicle aerodynamics research and development
  + assemble a prototype connector piece to validate mechanical designs proposed by propulsion

**AVIATION WEEK SPRING 2022**

* Use the Aviation Week database to construct company profiles and specification sheets for aircraft parts and emerging aviation technologies.

**Mesmer Research Group Huntsville Alabama Spring 2022- Present**

* The University in Alabama in Huntsville undergraduate researcher studying the benefits and drawbacks of failure classification schemes. This involves collaborating with system engineering graduate students on the development of a coding scheme to visualize our findings

**Northrop Grumman – Engineering Intern Huntsville Alabama Fall 2021- Present**

* Secret Security Clearance
* Systems engineering intern working in the Integrated Air and Missile Defense Battle Command System Sector (IBCS)
* Support development of documentation that matches operator actions to that of a simulated user interface environment. This documentation would help software engineers develop code for IBCS

**Hermeus Corporation- Structural engineer Intern Atlanta, Georgia Summer 2021**

* Patti Grace Smith Fellowship Intern
* Support the structures team in early-stage vehicle design and tooling to push towards the goal of building the world's fastest hypersonic aircraft, traveling five times the speed of sound.
* Utilized CAD software such as NX and Onshape, to design multiple iterations of the vehicle inlet
* Collaborated with senior engineers to increase the structural integrity of the hardware I owned as well as ran analysis in ANSYS and NX on custom designed hardware. This hardware included inlets, J-85 engine adapters, and aircraft hangers.

**Space Hardware Club: Co- Vice President 2020-2021**

**Crossguard 2021- present**

* Composite manufacturing group for the Space Hardware Club at University of Alabama in Huntsville

**Outreach Member 2019- present**

* Plan and help facilitate events for Space Hardware Club outreach, in reach, and club reach events

**L1 Amateur Rocketry Challenge 2019- Present**

* Individually construct a commercial kit rocket that will contain a standard parachute recovery system. The goal of L1 month is to not only build an amateur rocket but to earn a Tripoli Level 1 certification. This certification allows flyers to fly High-Power Rockets powered by a single H or I class impulse motor.

**Megan A. Jordan Page 2**

* Mentor 2020-2021

**Two-Month Glider Challenge - Team 15 Completed 2019**

* Build, Program, Test, and Fly a glider that is capable of measuring temperature, pressure, acceleration, orientation, and altitude while implementing a Hotwire mechanism to give the glider the ability to cut down from a weather balloon at a specified altitude.

**Volunteer Experience/ Extracurriculars/ Fellowships**

**The Brooke Owens Fellowship Member 2022 – Present**

* The Brooke Owens Fellowship connects women and gender minorities with jobs and mentorship in the aerospace industry.

**The Patti Grace Smith Fellowship: Recruiting Coordinator & Selection Committee Member 2021 - Present**

* The Patti Grace Smith Fellowship PGSF connects Black undergraduate students in their first or second year of college with jobs and mentorship withing the aerospace community. PGSF serves to increase diversity in aerospace and gives students the opportunity to do meaningful work through internships. As a selection committee member and recruiter, I will have the pleasure of choosing the next wave of black aerospace professionals who will change the aerospace community.

**American Institute of Aeronautics and Astronautics 2020– Present**

* ASCEND 2022 Host
* AIAA Diversity Scholar: ASCEND 2021
* UAH AIAA Member

**Women of Aeronautics and Astronautics 2020- Present**

* President 2022 - 2023
* Outreach Chair 2021-2022

**Additional Volunteer Experience (2017-2020)**

**Circle K International 2019- Spring 2020**

* International service organization that focuses on providing students with both a leadership experience and an immersive volunteer experience.
* Service Activities: Alabama Leadership Academy, Jean Dean RIF Day of Service, Huntsville Animal Shelter Pet Adoption Day Volunteer, MAD Scientist Ball
* Organized Projects: Circle K’s Trunk of Treat for UNICEF 2019 booth

**Service Cadres Spring 2020**

* Manna House: Dedicate weekly service to the Manna House public charity organization which provides food assistance to the citizens of Huntsville.

**Alternative Fall Break Service Trip Fall 2019**

* Battling Food Insecurity & Poverty: Traveled with a team of volunteers to serve underprivileged communities in Atlanta, Georgia.
* Service Projects: Volunteering in food and clothing distribution with SWEEAC Food Bank. Organized articles of clothing at Gateway Community Center for individuals experiencing homelessness. Harvesting vegetation at Gilliam’s Community Gardening and Truly Living Well Center for Urban Agriculture. Collaborated with Georgia Tech essential2life to provide mock interviews and workshops to underprivileged students.

**Megan A. Jordan Page 3**

**Emerging Leaders 2019- 2020**

* Freshman oriented leadership group centered around shaping a new wave of leaders at The University of Alabama Huntsville.

**Jennifer’s Daycare Center 2017- 2019**

* Summer volunteer at Jennifer’s Daycare Center which provides childcare for underprivileged families in the Mobile, AL area.

**Additional Work Experience (2017-2021)**

**The University of Alabama in Huntsville Huntsville, AL 2020-2021**

* Huntsville Inner City Learning Center Tutor that provided virtual assistance to K-8 Grade students

**Foosackly’s - Cashier/Server Mobile, AL Spring 2019**

* Provided personable customer service experience
* Answered phone calls and inquiries pertaining to the company
* Efficiently worked numerous positions throughout the store

**The Village Hideaway - Hostess/Server Gulf Shores, AL Summer 2018**

* Maintained cultural sensitivity by working and communicating with a diverse group of individuals
* Successful in working in a fast-paced environment
* Ability to adapt to a changing work setting

**City of Mobile 311 Call Center - Intern Mobile, AL Summer 2017**

* Input city service request orders and sensitive information into an online database
* Collaborated with city officials and other stakeholders
* Organized time sensitive and confidential documents
* Assisted supervisor with overall run of office

Affiliations

**University of Alabama Huntsville collegiate Chapter of the Society of Women Engineers**

**University of Alabama Huntsville Women of Aeronautics and Astronautics**

**American Institute of Aeronautics and Astronautics**

**University of Alabama Huntsville Space Hardware Club**

**Brooke Owens Fellowship Class of 2022**

**Patti Grace Smith Fellowship 2021**