

Mayar Elamin

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OBJECTIVE

Aerospace engineering student seeking a full-time role at a forward-thinking company with a great culture where I can leverage my hands-on project expertise and strong teamwork, leadership, and problem-solving skills.

EDUCATION

Iowa State University

Bachelor of Science, Aerospace Engineering

Anticipated: Dec 2025

Current GPA: 3.6

SKILLS

- **Software:** CAD | Ansys APDL | MATLAB | Microsoft Office | Google Suite | LaTeX | MotoCalc | CFD
- **Languages:** Arabic | English

ACADEMIC PROJECTS

SAE Formula

Jan 2025 - Present

- Manufacture aerodynamic components for Cyclone Racing's CR-28 using carbon fiber layups, epoxy preparation, sanding, and vacuum bagging, ensuring structural quality and surface finish.
- Manage material preparation by measuring and cutting carbon fiber, peel ply, breather cloth, and vacuum bags.
- Contribute to the aero kit design for the EV CR-30 by learning and running CFD simulations on side wings and supporting integration into the overall vehicle design.

High Altitude Balloon Experiments in Technology Project

Nov 2024 - Dec 2024

- Collaborated with the Iowa State University HABET team to design and execute a data collection experiment utilizing the Adafruit CLUE board.
- Programmed the CLUE board in Arduino IDE to investigate sound propagation as a function of altitude.

Aerodynamic Shape Optimization Research

Jun 2024 - Aug 2024

- Conducted Multidisciplinary Design Optimization (MDO) of aircraft structures, focusing on airfoils and overall wing design.
- Applied Machine Learning and Reduced-Order Modeling using the SMT toolbox.

AIAA Design Build Fly (DBF) Operations Team Lead – Make To Innovate (M:2:I)

Jan 2024 - May 2024

- Oversaw smooth team operations and ensured compliance, organize design and manufacturing processes to meet deadlines.
- Assisted in the documentation of technical reports.
- Met project goals while working within the given rulebook constraints.
- Planned flight test days and executed flight checklists meticulously.

Lighter Than Air Aircraft Project

Mar 2023 - May 2023

- Collaborated with teammates to design and construct a lightweight aircraft using budget-optimized materials, gaining practical skills in aerodynamics, propulsion, and control systems.

WORK EXPERIENCE

Arabic Teacher | Smarty Pals Online School - Remote

Jun 2020 - Jul 2023

- Developed and delivered lesson plans for around 60 students, developing communication and adaptability skills.
- Provided feedback, addressed concerns, and supported individual learning needs.

Warda Home Business Owner | Florist - Rockford, IL

Sept 2020 - Jan 2023

- Provided excellent customer service to determine the type of arrangement desired for different occasions.
- Managed employee tasks and inventory.
- Achieved an annual profit ranging from \$27,000 to \$30,000.

Jewelry Sales Associate | Banter by Piercing Pagoda - Rockford, IL

Aug 2021 - Aug 2022

- Provided personalized jewelry advice and performed safe piercings for clients of all ages, ensuring a positive and personalized experience.
- Organized and managed weekly inventory.

VOLUNTEER EXPERIENCE

Food At First Volunteer - Ames, IA

Apr 2024

- Prepared, organized and distributed food supplies to people and families in need.

HONORS AND ACHIEVEMENTS

- Dean's List at Iowa State University (> 3.25 GPA) **Dec 2023 - May 2025**
- Tau Sigma Honors Society **Feb 2024**
- President's and Dean's List at Rock Valley College (4.0 GPA; > 3.25 GPA) **May 2019, May 2020**
- Dassault Systemes Certificate for mechanical design at Associate level **Dec 2019**

CURRENT AFFILIATIONS

NSBE: National Society of Black Engineers | **AIAA:** American Institute of Aeronautics and Astronautics | **SAE**

Formula: Aero Subsystem | **WiSE:** Women in Science and Engineering