Aditya Sally

(480)-512-9756 | asally2@asu.edu | www.linkedin.com/in/asally2

SUMMARY

Sophomore Mechanical Engineering student with a strong background in manufacturing design for manual automotive hardware and a passion for innovation and research. Experienced in operating software tools like MATLAB and Simulink. Recognized as a Grand Challenges Scholar through Arizona State University. Actively seeking research opportunities in engineering and related fields to further develop skills and contribute to valuable projects.

EDUCATION

Arizona State University **Tempe, AZ**

School of Engineering of Matter, Energy and Transport Aug. 2023 – May 2027

Bachelor of Science in Mechanical Engineering **GPA 4.00**

TECHNICAL SKILLS

Proficient In: MATLAB, Fusion 360, SIMULINK, Python, Design Prototyping, MS Excel, Storytelling, Biomimicry, Public Speaking, Report Writing and Composition

Exposed To: Adobe Suite, AutoCAD, Photography, Psychology

ACADEMIC PROJECTS

Aeronical

Aug. 2023 – Dec. 2023

Grand Challenges Scholars Program - Arizona State University

- Conceptualized and developed an innovative, environmentally friendly Aluminum-Graphene-based battery engine, supported by five meticulously researched and detailed deliverables involving concepts of thermoelectric legs, mechanical properties of solids and automobile engineering.
- Animated a digital model of the engine, illustrating its chemical reactions and feasibility as a future sustainable alternative Li-ion batteries.

Adaptive Bike for Quincy - Design Lead

Jan. 2024 – May 2024

Engineering Projects in Community Service - Arizona State University

- Researched creative steering solutions for controlling a bike from behind the seat and contributed to the design of both fixed and free drivetrain systems for the tricycle.
- Prototyped five distinct steering mechanisms and 3D printed multiple mechanical gears and supports.
- Culminated the project and presented the physical prototypes to a panel of engineers, receiving technical feedback and refining concepts based on their insights before delivering to community partner.

Crutch Comfort

Aug. 2023 – Dec. 2023

Ira A. Fulton Schools of Engineering - Introduction to Engineering

- Developed and conceptualized the idea of pain-free crutches for stakeholders. Interviewed customers and industry experts to refine the design and presented to professionals for review.

EXPERIENCES

Logistics Director - Fulton Ambassadors

May 2024 – Present

Ira A. Fulton Schools of Engineering

- Manage records in MS Excel, program inputs for data collection and manage meeting times and minutes.
- Lead tours for for prospective students and promote the institution, showcasing excellent interpersonal skills.

President Science Club

Aug. 2022 – May 2023

Spring Dale Senior School

- Senior Teaching Assistant for Physics, Chemistry, and Math. Assisted in demonstrating laboratory experiments to elementary school students.
- Led the group effort towards educating 600+ elementary school students the basics of the Theory of Relativity, dual nature of photons, and higher Chemistry.

AWARDS & HONORS

- Storytelling Leader - Grand Challenges Scholars Program Feb. 2024
- Dean's List – Arizona State University May 2024, Dec. 2023