

Muhammad Anjum

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San Diego State University - San Diego, CA

Bachelor of Science in Aerospace Engineering | Minors in Mathematics & Computer Science
5x Dean's List Honoree

May 2027

WORK EXPERIENCE

PRESIDENT | VICE PRESIDENT | ENERGY STORAGE TEAM LEAD

07/2023 to PRESENT

Aztec Electric Racing (AER) FSAE EV - San Diego, CA

- Leading a 250+ member FSAE electric team in project management, operations, and budget planning.
- Established the team's first operations framework to delegate work in SAE competition requirements, sponsorships outreach, safety, and recruitment.
- Researched, designed, and fabricated first high voltage tractive battery with control systems integration.
- Achieved a historic first by successfully passing the accumulator structural inspection.
- Built and iterated the team's first powertrain testbench with cooling loop and wiring harness integration.
- Developed documentation and validation standards for future subsystem designs and manufacturing.

UNDERGRADUATE RESEARCHER

01/2025 to PRESENT

San Diego State University - San Diego, CA

- Conducting aerodynamic research under Dr. Luciano Demasi, a top 2% cited aerospace engineering author of published works.
- Analyzing unsteady aerodynamics, wing structures, and aeroelastic effects using computational and experimental methods.
- Authored and formatted technical research papers in LaTeX (MiKTeX).

FOUNDER & PRESIDENT

07/2024 to PRESENT

Muslim Tech Collaborative (MTC) - San Diego, CA

- Founded and scaled a professional development network for Muslim students, reaching 50+ active members.
- Directed all club operations, including marketing, recruitment, and funding strategies.
- Coordinated with employers to organize professional panels and career workshops.

INTEGRATED MANAGEMENT SYSTEM INTERN

06/2023 to 08/2023

NASA - National Aeronautics and Space Administration - Merritt Island, FL

- Managed and streamlined documentation workflows for NASA's Integrated Management System team.
- Maintained internal web applications for document control and governmental compliance audits.
- Authored and revised technical memos, data sheets, and procedural updates improving efficiency by 10%.
- Developed updates, data sheets, technical instructions, and action plans for NASA.
- Earned 8 NASA certifications in process management and technical documentation.

PROJECT MANAGER

06/2023 to 05/2024

American Society of Mechanical Engineers (ASME) - San Diego, CA

- Directed all phases of a 4-part project plan for the SDSU ASME student chapter.
- Organized and led general body meetings; implemented project tracking and design documentation tools.
- Spearheaded the IAM3D Drone Competition project, leading the team to place 4th internationally.
- Managed procurement and budgeting for materials, tools, and travel.

SKILLS

Project & Business:

Project Management
Data and Trends Analysis
Supply Chain Logistics
Budgeting and Cost Reports
Team Leadership
Technical Documentation

Software & Tools:

Solidworks
ANSYS FEA
MATLAB & Simulink
Java/C/Python
Microsoft Office Suite
MiKTeX

Technical & Engineering:

Machining & Fabrication
PCB Soldering
Circuit Analysis + Testing
High-Voltage Systems
Arduino Circuits + Software
Automotive Expertise

