

Tisha Maryam

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EDUCATION

Texas A&M University

Bachelor of Science in Materials Science and Engineering
Graduating May 2027 | GPA: 3.1

College Station, Texas

EXPERIENCE

National Corrosion and Materials Reliability Lab (NCMRL)

Bryan, Texas

Undergraduate Research

Vehicle Corrosion Prevention

May 2025 - Present

- Evaluated corrosion-resistant coatings on 100+ metal samples in collaboration with Toyota, performing durability testing for automotive, defense, and oil & gas applications.
- Prepared and characterized materials using metallographic grinding/polishing, SEM, DSC, and surface profilometry to assess coating degradation and failure behavior.
- Worked with industry partners to develop and standardize long-term, in-field corrosion testing protocols for performance and reliability evaluation.

Texas A&M - Design, Build, Fly

Manufacturing and Structures Engineering Sub-team

College Station, Texas

Materials and Structures Engineer

August 2024 - May 2025

- Designed and manufactured an RC plane using SolidWorks and MATLAB in compliance with FAA regulations for AIAA's 2025 Design Build Fly competition
- Used SolidWorks to design multiple parts and gained experience in scales, calipers, and understanding tolerances for building the plane
- Developed iterations of simulation models to model aerodynamics for parts using ANSYS FEA and modeled airflow using XFLR5 CFD
- Completed 250+ workshop hours working with carbon fiber, metals and wood, co-authoring a 50+ page design report with 4 engineering sub-teams

LEADERSHIP

Women in Materials Science, Texas A&M University

Vice President

January 2025 - Present

- Organized weekly events and meetings with officers to run efficient and smooth meetings for 30+ members
- Provided leadership opportunities for young women in STEM by implementing outreach programs in local high schools and holding fundraising events

Women in Engineering, Texas A&M University

Vice President, Secretary

August 2023 - May 2024

- Managed general membership and implemented strategies for higher member attendance which led to a 20% increase in membership
- Communicated and pitched effectively with faculty representatives and administration through slide decks for funding and off-campus event organization, collectively raised \$700 as leadership for the organization

SKILLS & INTERESTS

Technical Skills: Microsoft Suite, Python, R, SolidWorks, Scanning Electron Microscopy (SEM), Differential Scanning Calorimetry (DSC), GSAS-II, MATLAB, ANSYS FEA, XFLR5

Interests: Manufacturing, Energy, Corrosion, Consulting, Mechanical Testing, Failure Analysis.

Professional societies and organizations: ASM, AMPP, SWE (Society of Women Engineers), Materials Advantage, Women in Materials Science