Raheel Nazir

Lutherville-Timonium, MD

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Education

University of Maryland Transfer Program **Expected May 2027**
Bachelor of Science in Mechanical Engineering *College Park, MD*

Community College of Baltimore County **Jan. 2023 – Present**
Associate of Science in Engineering *Essex, MD*
- President's List Recipient — Winter 2024 — GPA: 4.00
- Dean's List Recipient — Spring 2024 and Summer 2024 — GPA: 3.70 and 4.00
- Digital Fabrication Lab Professional

Louisiana State University **Aug. 2023 – Dec. 2023**
Bachelor's of Science in Engineering *Baton Rouge, LA*
- Dean's List Recipient — Fall 2023 — GPA: 3.60

Technical Skills

Technical Skills: AutoCAD, Excel
Programming Languages: MATLAB, HTML/CSS
Interpersonal Skills: Positive Influence/Leadership in Team-Based Environments, Conflict Resolution, Attention to Detail

Projects

Engineering Design – Team Lead | *AutoCAD* **May 2024**
- Designed a spaceship the size of a U.S. aircraft carrier using **AI-driven tools**, focusing on modularity and efficiency for space assembly to optimize structural integrity and ease of construction in orbit
- Used AutoCAD to create detailed blueprints of modular components, ensuring precision and compatibility for orbital assembly by implementing industry-standard tolerances and geometric dimensioning and tolerancing **(GD&T)**
- Conducted structural and thermal analyses to optimize the spaceship's design for extreme space conditions by simulating load distributions, thermal expansion, and stress points in various space environments

24 Hours of Lemons | *Endurance Racing Competition* **October 2023**
- Applied multivariable calculus to model the motion of a pendulum under varying forces by formulating differential equations and solving complex integrals to analyze system behavior
- Utilized advanced calculus techniques such as partial derivatives and **Jacobian matrices** to study the impact of external forces on pendulum motion and identify equilibrium points
- Simulated pendulum motion using numerical methods and computational tools to visualize phase trajectories and predict oscillatory behavior under different initial conditions

Extracurriculars

TigerRacing FSAE **Fall 2023 – Winter 2023**
Powertrain/Chassis Technician *Louisiana State University*
- Assisted in the design and development of engine components using **CAD** software.
- Helped assemble and fit parts of the car's chassis, ensuring they met competition requirements.
- Provided general support across stages of the car-building process in a fast-paced team environment.

Hiking Club **Spring 2025 – Present**
Event Coordinator *Community College of Baltimore County*
- Organized and led hiking events, coordinating logistics and ensuring participant safety.
- Managed communication between club members and local parks services to facilitate group sessions.
- Developed promotional materials and social media content to increase club engagement.

Experience

Al Kareem School **May 2022 – Present**
Teacher *Lutherville-Timonium, MD*
- Provided individual support to 50+ students, adapting teaching techniques to meet various learning styles.
- Supported classroom management and activities, ensuring a positive and productive learning environment.