# Raheel Nazir

rah.naz@hotmail.com 443.824.0604 Start Date: May 2025

**Personal Statement:** Mechanical Engineering student with a strong foundation in calculus, physics, and engineering design. Seeking hands-on experience in mechanical design, prototyping, and product development to apply theoretical knowledge in real-world applications. Passionate about improving lives and pushing the limits of technology.

## Education

**University of Maryland Transfer Program** **Expected May 2027**
Community College of Baltimore County January 2023 - Present
Associates of Engineering - Mechanical Engineering

**Technical Skills:** SolidWorks, AutoCAD, CATIA, Revit, MATLAB

**Extracurricular Activities:** LSU Tiger Racing Formula SAE, Progressive Student Alliance, Fencing, Guitar

## Work Experience

**Al Kareem School**
***Assistant Teacher*** **May 2022 - Present**

- Assisted in developing and delivering lesson plans, helping students understand key concepts in subjects such as mathematics and science.
- 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.

## Projects

**Intro to Engineering Design – Team Lead** **January - 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.
- Used AutoCAD to create detailed blueprints of modular components, ensuring precision and compatibility for orbital assembly.

**Calculus III** **August - December 2024**

- Worked on a project applying multivariable calculus to model the motion of a pendulum under varying forces.
- Utilized advanced calculus techniques to solve complex integrals and differential equations.
- Presented results, demonstrating the real-world application of calculus principles.

**Mechanics I (Statics)** **August - December 2024**

- Completed a project analyzing static equilibrium of a structure, calculating forces and moments to ensure stability and safety.
- Used engineering software to simulate and visualize forces acting on the structure.
- Presented findings in a report, showcasing problem-solving and technical communication skills.

## Leadership

First-Year Experience Mentor **August 2024 – Present**
Student Government Association **August 2024 – Present**
Student Engagement Ambassador **August 2024 – Present**
Student Programming Board **August 2024 – Present**