

# RAHEEL NAZIR

Lutherville-Timonium, MD

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## Education

### University of Maryland Transfer Program

*Bachelor of Science in Mechanical Engineering*

**Expected May 2027**

*College Park, MD*

### Community College of Baltimore County

*Associate of Science in Engineering*

**Jan. 2023 – Present**

*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

*Bachelor's of Science in Engineering*

**Aug. 2023 – Dec. 2023**

*Baton Rouge, LA*

- Dean's List Recipient — Fall 2023 — GPA: 3.60

## Technical Skills

**Technical Skills:** AutoCAD, Excel

**Programming Languages:** MATLAB, HTML/CSS

## Projects

### Tire Force Model

**Nov. 2024**

- Studied a real-world application of multi-variable calculus involving Pacejka's Magic Formula, which models the forces acting on a car's tires.
- Implemented the formula in **MATLAB**, using actual tire data to calculate lateral and longitudinal forces in different conditions.
- Validated the results by comparing them to empirical tire test data, ensuring accuracy in force predictions.

### Spacecraft Design & Analysis

**Apr. 2024**

- Designed a spacecraft the size of a U.S. aircraft carrier using **AI-driven tools**.
- Modeled the spacecraft in **AutoCAD**, adhering to industry-standard tolerances and geometric dimensioning to ensure precision and reliability.

### 24 Hours of Lemons | *Endurance Racing Competition*

**Oct. 2023**

- Restored and modified a 1966 Dodge Coronet to compete in an endurance race while complying with a **\$500** budget.
- Installed and repaired engine components to ensure the vehicle was race-ready.
- Collaborated with others to source affordable parts and optimize vehicle performance.

## 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.