

# Ahmed Megahed

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## EDUCATION

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**UNIVERSITY OF MARYLAND**—College Park, MD

Expected Graduation May 2024

**Bachelor of Science (B.S.):** Mechanical Engineering

**GPA: 3.30/4.0**

**Minor:** Robotics and Autonomous Systems

*National Honor Society for Exceptional Academic Performance: Honorable Mention*  
*Honors College*

## TECHNICAL & RESEARCH EXPERIENCE

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**INTRODUCTION TO CAD**—College Park, MD

March 2021-May 2021

### Manual Gate

- Researched gear design and calculations and designed precise gear outline for a better rotation ratio
- Designed full gate mechanism connected to rotation arm
- Edited a specific video to show the mechanism of opening and closing the gate

**INTRO TO ENGINEERING DESIGN**—College Park, MD

April 2021-May 2021

### Road Ragers Team Member

- Brainstormed real-life applications for advanced uses of the Arduino Uno kit
- Worked within a team of 4 members working on a front sensor for a car to prevent tailgating
- Developed a layout for the Arduino design including the sonic sensors and OLED screen
- Reconstructed the Arduino script to satisfy our goal of calculating the distance and relaying it onto the OLED screen and bringing about a valuable output for the driver to slow down

**THERMODYNAMICS**—College Park, MD

April 2022-May 2022

### Refrigerant Red Bull Team Member

- Extensive research on geothermal power plants, specifically on stakeholders affected
- Revision of economic feasibility and refrigerant choice for the powerplant based on placement
- Created a precise design of the powerplant to fit home in both the winter and the summer to ensure maximum efficiency
- Worked on specific calculations to ensure zero faulty and best numerical precisions for best performance.

## ACTIVITIES

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**MECHANICAL CONTRACTORS ASSOCIATION**—Metro Washington / UMD Chapter

July 2022-Present

### Chapter Member

- Collaborated with a team of six mechanical engineering students to develop a full-scale bid proposal for a real-life mechanical project
- Developed peer relationships with mechanical engineering students through participation in the National MCAA Student Chapter Competition and accompanying events
- Gained industry perspective and understanding through a mentor program with industry professionals

## SKILLS

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**Software** | SolidWorks, Fusion360, Microsoft Office Suite, MatLab, HTML, CSS, Javascript, C, C++

**Manufacture** | Circular Saw