

# Mahdi Islam

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## SUMMARY

**Aspiring Mechanical Engineer** with practical experience in **CAD design, prototyping, and 3D printing**. Independently designed and fabricated mechanical components using **Autodesk Inventor, AutoCAD, and Onshape**, applying iterative design and FDM technology. Demonstrated leadership as a **peer tutor** and team collaborator in high-pressure environments, including national-level hackathons. Passionate about engineering design and contributing to fast-paced, innovation-driven teams.

## EDUCATION

### Stuyvesant High School - New York, NY

September 2018 - June 2022

- Varsity Football, Linebacker - honed quick decision-making and teamwork under pressure

### City College of New York, CUNY - New York, NY

August 2022 - Est. May 2026

#### Pursuing Bachelor of Engineering in Mechanical Engineering

- Relevant Coursework: Thermodynamics, Fluid Mechanics, Electrical Circuits
- Tools and Technologies: Autodesk Inventor, AutoCAD, Onshape, MATLAB, Python
- Activities: Member of Zahn Innovation Venture Incubator

## PROFESSIONAL EXPERIENCE

### Academic Tutor (Self-Employed) - New York, NY

June 2022 - Present

- Tutored students weekly in mathematics and science, including algebra, chemistry, and physics
- Improved client exam scores by an average of 25% through data-driven lesson planning and progress reviews.
- Maintained long-term relationships by delivering consistent, outcome-based instruction.

### Lead Teacher at Bobby Tariq Tutoring Center - Queens, NY

October 2023 - September 2024

- Led instruction for SAT/SHSAT prep and advanced STEM courses: AP Precalculus, AP Physics, AP Calculus
- Improved the average students' SAT scores by 200.
- Collaborated with other instructors to refine teaching strategies and target student weaknesses using performance data.

### Math Tutor at CCNY Artino Lab Tutoring Center - New York, NY

June 2024 - Present

- Assisted peers in understanding complex mathematical concepts, resulting in a **14% increase** in whole-class test averages.
- Built a strong reputation for effective teaching methods, leading to a growing, recurring clientele.
- Led review workshops of 100+ students, reinforcing key math concepts in preparation for final exams.

## PROJECTS

### Founder & CEO | QuickBites - New York, NY

April 2023 - Present

- Founded and led a student-oriented food delivery startup, managing app development, logistics, and operational strategies.
- Designed an efficient delivery logistics system, significantly reducing delivery times and lowering operational costs by 25% compared to traditional services.
- Secured funding and honed business strategies through active participation in startup competitions.

### Unity Game Developer - New York, NY

April 2023 - Present

- Developed gameplay prototypes in Unity to strengthen skills in C# and object-oriented programming
- Built a lightweight physics engine to simulate real-time collision detection, velocity changes, and angular reflections in 2D environments
- Prototyping new mechanics to explore interactive design, system logic, and user responsiveness in dynamic simulations

### Finalist of the Cornell Digital Agriculture Hackathon - Ithaca, NY

February 2025 - March 2025

- Collaborated on a solution to improve data literacy and availability for underprivileged agriculturalists.
- Integrated tools like ChatGPT LLM with WhatsApp Chat API to deliver processed satellite imaging data to users.
- Developed a business model for data acquisition and user engagement through the chatbot.

### Second Place - Zahn X Robin Hood Foundation Social Impact Innovation Spring - New York, NY

April 2025

- Collaborated in a week-long sprint to design a scalable solution addressing poverty-related challenges in NYC
- Applied design thinking and rapid prototyping to develop and test a user-centered intervention
- Supported the startup **WeSuap** by conducting user research, identifying pain points, and proposing scalable, tech-enabled interventions, earning 2nd among interdisciplinary CCNY teams

## TECHNICAL SKILLS

**Programming Languages:** C++, C#, Python, JavaScript, MATLAB

**Software:** Unity, AutoCAD, AutoDesk Inventor, Revit, Onshape

**Microsoft Office:** Excel (VBA, Macros, Data Analysis)

**Languages:** English, Bengali (fluent)