

## Elias Bilal

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### EDUCATION

**Tufts University** 2022 – 2026 Bachelor of Science Mechanical Engineering (BSME)

Major GPA (Mechanical Engineering): 3.00 / 4.00

Relevant courses: General Physics I, General Physics II, Applications in Engineering: Simple Robotics, Computation in Engineering, Calculus I, Calculus II, Differential Equations, Mechanics I, Materials and Manufacturing I, Elementary Modern Standard Arabic

**The American University in Cairo** 2024-2024 Non Degree Seeking Study Abroad Student

Relevant courses: Mechanics II Dynamics, Materials and Manufacturing II, Calculus III

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### EXPERIENCE

#### Consigli Construction, Cambridge, MA

- **Mechanical Engineering Intern**

June 2024 - August 2024

· Coordinated mechanical, electrical and plumbing systems with owners, architects, and trades to restore the MIT East Campus Parallels.

· Gained experience with and advanced understanding of heating and cooling, electric power control and water distribution systems and their required methods of fabrication, installation and maintenance

- **Project Management Intern**

May 2023 - August 2023

· Worked closely with Project Engineers, MEP Managers, Architects, Owners, and Subcontractors to restore the Harvard Newell and Weld Boat Houses while obtaining knowledge and experience of construction operations and procedures

· Responsible for project documentation, communication with subcontractors, and participation in project meetings

· Earned OSHA 10 Certification

#### Tufts Sports Medicine, Medford, MA— Work Study

October 2022 - Present

· Accurately uploading student athlete paperwork onto the patient database

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### PROJECTS

#### Electric Scooter Project

· Modeled and manufactured a functional electric scooter design with aluminum and steel to meet desired load specifications via SOLIDWORKS

· Scooter components included an 800W DC motor, Altrax motor controller, braking mechanism and steering mechanism. The project was completed under a budget to create a functional product

#### Crossbow Project

· Used Lego Spike Prime, Legos, and wood to create a functional website controlled crossbow that could aim and pop balloons

· Was developed to entertain middle school age clients who tested the crossbow from their school location via zoom

#### Machine Learning Lung Cancer Prediction Website

· Coded a Python program which utilizes machine learning, medical patient data of lung cancer probabilities and user inputs to predict lung cancer risk.

· Graphs correlations between different patient characteristics and cancer probability as characteristic level increases

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### EXTRA CURRICULARS / LEADERSHIP

#### National Society of Black Engineers (NSBE)

- Treasurer 2024-2025
- Underclassmen Representative 2023-2024

#### Tufts Football Team

- Athlete and teammate

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### SKILLS

Languages & Programs: Python, SOLIDWORKS, JavaScript, HTML, MATLAB, CSS, Comsol

Mechanical Engineering: 3D printing, Laser Cutting, PCB, Prototyping, Design, Injection Molding

Graphics, Documentation, & Editing: Microsoft PowerPoint, Microsoft Excel