Elias Bilal

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EDUCATION

Tufts University 2022 – 2026 Bachelor of Science Mechanical Engineering (BSME)
Major GPA (Mechanical Engineering): 3.2 / 4.00
Relevant courses: General Physics I, General Physics II, Applications in Engineering: Simple Robotics, Computation in Engineering, Calculus I, Calculus II, Elementary Modern Standard Arabic

EXPERIENCE

Consigli Construction, Cambridge, MA— Project Management Intern

May 2023 - Present

· Earned OSHA 10 Certification

· Worked closely with Project Engineers, MEP Managers, Architects, Owners, and Subcontractors to restore the Harvard Newell and Weld Boat Houses

· Obtained knowledge and experience of construction operations and procedures

Tufts Sports Medicine, Medford, MA— Work Study

October 2022 - Present

· Accurately uploading student athlete paperwork onto the patient database

· Restock and organize medical supplies and organize and arrange varsity sport practices

Dicks Sporting Goods, North Attleborough, MA— *Cashier*

March 2023 - May 2023

· Quick and precise handling of monetary transactions and frequent use of upselling so

PROJECTS

Electric Scooter Project

· Modeled and manufactured functional electric scooter design with metal materials to meet desired load specifications via SOLIDWORKS

· Assembled scooter using a 350W Permanent Magnet DC motor, motor controller, braking mechanism and steering mechanism 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

Sign Language App

· Coded an app that takes letter inputs from the user and outputs images of the correct ASL signs in order using JavaScript

· Designed app layout to be user friendly and easily functionable

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

EXTRA CURRICULARS / LEADERSHIP

National Society of Black Engineers (NSBE)

· Underclassmen Representative of the Tufts NSBE chapter; role to help expand Tufts' chapter member network

Tufts Football Team

· Athlete and teammate

SKILLS

Languages & Programs: Python, SOLIDWORKS, JavaScript, HTML
Mechanical Engineering: 3D printing, Laser Cutting, PCB, Prototyping, Design
Construction Management: Procore, Bluebeam
Graphics, Documentation, & Editing: Microsoft PowerPoint, Microsoft Excel