Mustafa Saleh

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EDUCATION

Northeastern University, College of Engineering - Boston, MA   May 2027
Candidate for Bachelor of Science in Mechanical Engineering
GPA: 3.8, *Dean's List (2023-Present)*

Relevant coursework: Physics 2, Calculus 3, Cornerstone of Engineering 1 and 2, Differential Equations, Linear Algebra, Statics, Thermodynamics, Mechanics of Materials, Material Science, Electrical Engineering, Fluid Dynamics, Dynamics, Measurements and Analysis, CAD and Manufacturing, Study abroad in Florence.

TECHNICAL SKILLS

Software: SolidWorks, FEA, SolidWorks PDM, 3D printing slicers, AutoCAD,
Hardware: 3D printing, Machining, CNC, Hand Tools, Water Jet
Other: GD&T, MATLAB, C++, Python, Soldering, Circuit Analysis

PROFESSIONAL EXPERIENCE AND PROJECTS

ASMPT NEXX   January 2025 - August 2025
Panel R&D - Mechanical Engineering Co-op
- Supported the development of a new tool by taking on numerous small scale projects
- Research, developed, and tested an electrical connector using sheet metal and machined parts
- Maintained existing tools and customer demands through ECO documentation and engineering drawings

Northeastern Electric Racing (FSAE & F+HE)   January 2024 - Present
Powertrain - Motor Cooling Lead
- Responsible for creating a water cooled system for the motor controller and motor
- Read scientific literature and conducted empirical testing to optimize efficiency, weight, and performance
- Designed and fabricated in house fluid components and weld mounts while managing a $600 budget

American Society of Mechanical Engineers   September 2024 - Present
Eboard - Vice President of Meetings
- Corresponding with companies to organize career fairs, workshops, and donations
- Facilitating social events with 30+ Northeastern mechanical engineers attending per event
- Responsible for bringing in companies weekly to discuss various industries and co-op opportunities

Shepherd Lab: Robotics, Rehabilitation, Locomotion - Boston, MA   May 2024 - December 2024
Research Assistant
- Assisting in the design of an ankle prosthetic with 3D printed spring and back mounted electronics chassis for PhD candidates
- Designing, fabricating, and testing torque on a spring system using SolidWorks and 3D printing
- Researching and ordering hardware, assembling cardboard and 3D printed prototypes
- Read weekly scientific literature on mechanics and prosthetics

Access Dental - Clifton, NJ   July 2024 - August 2024
Front Desk/ Receptionist
- Used Dentrix software to coordinate appointments, keep track of schedule, and manage the waiting room
- Checked patients' insurance information prior to appointments as well as personal information
- Managed incoming phone calls between offices and handled patient inquiries

Traveling Science Museum Expo   January 2024 - April 2024
- Collaborated with and led team of 4 to develop an interactive science exhibit on space exploration
- Utilized the engineering design process and market research to design a prototype for the client with a budget of $100
- 3D printed elements, Arduino electronics, and automatic data collection integrated with MATLAB

VOLUNTEER

CSWA Teachers Assistant   January 2025 - January April 2025
- Helped orchestrate a student run SolidWorks CSWA course with 75 students at Northeastern
- Answered questions about SolidWorks, the CSWA exam, and technical difficulties during weekly lessons

INTERESTS AND GOALS

Interests: Frisbee, Arabic, Comic books, Cooking, 3D printing props, Robots, Powerlifting