

Nabeel Bangash

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EDUCATION

University of Houston | Houston, TX

Expected Graduation | **May 2028**

Bachelor of Science in Electrical Engineering

Cumulative GPA: **3.743**

Coursework: Computing for Engineers, Introduction to Engineering, Circuits I

SKILLS & TECHNICAL TOOLS

Languages & Tools: C++, Java Script, Python, MATLAB, Fusion 360, HTML, Plastic Welding

CERTIFICATIONS

Certified Entry-Level Python Programmer (PCEP) Python Institute (OpenEDG)

May 2023

EXPERIENCE

Tutor | University of Houston

January 2024 - Present

- Tutor Calculus II topics, including advanced integration, sequences, series, and parametric equations.
- Strengthen students' problem-solving skills by breaking down complex concepts and implementing structured, time-efficient learning strategies.

PROJECTS

Iron Man Helmet | C++, Arduino

June 2025

- Engineered a motorized Iron Man helmet using an Arduino Nano, integrating servo motors, LED eyes, and a programmable trigger mechanism for automated opening and closing.
- Developed and implemented embedded systems software using Arduino IDE, coding servo movement and LED behavior with custom speed and angle adjustments.
- Designed and wired an electronic control system, utilizing soldering, circuit wiring, and personally developed code to enhance functionality and ease of customization.

Miniature Golf Course | Fusion 360, 3D Printing, Woodworking, Plastic Welding

June 2024

- Designed and constructed a functional miniature golf course, integrating 3D-printed obstacles for unique and challenging gameplay.
- Utilized Fusion 360 to model and prototype course elements, ensuring precise measurements and seamless integration of 3D-printed components.
- Applied woodworking techniques, including sawing, drilling, and assembling plywood structures, to build a durable and stable course.

Symptom Debugger | MATLAB Diagnostic Tool

January 2025 – March 2025

- Developed a MATLAB-based app to match user-selected symptoms with potential diseases from a medical dataset
- Optimized symptom-disease matching logic, improving diagnostic accuracy and system responsiveness
- Designed an interactive UI that displays ranked matches, disease descriptions, and visual cues for each condition
- Integrated CSV-based data input and dropdown filtering to streamline disease lookup and user experience

Personal Website | JavaScript, HTML, CSS

July 2025 – August 2025

- Designed and developed a responsive personal portfolio website to showcase projects, academic and professional experiences, hobbies, and contact information.
- Implemented clean, accessible layouts with intuitive navigation, ensuring an engaging and user-friendly browsing experience across devices.

