Nabeel Bangash

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EDUCATION

University of Houston | Houston, TX Expected Graduation |**May 2028**
Bachelor of Science in Electrical Engineering Cumulative GPA: **3.8**
Coursework: Computing for Engineers, Introduction to Engineering

SKILLS & TECHNICAL TOOLS

Languages & Tools: C++, Python, MATLAB, Fusion 360

CERTIFICATIONS

Certified Entry-Level Python Programmer (PCEP) Python Institute (OpenEDG) **May 2023**

EXPERIENCE

Tutor | University of Houston **January 2024 - Present**

- Provided in-depth tutoring for Calculus II, covering advanced integration techniques, sequences and series, and parametric equations.
- Helped students strengthen problem-solving skills by breaking down complex concepts into step-by-step explanations.
- Created a structured approach to tutoring sessions, ensuring efficient time management and effective learning outcomes.

PROJECTS

Iron Man Helmet | C++, Arduino **July 2024**

- 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 **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 2024 – March 2024**

- 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