YOUSIF FADHEL

ELECTRICAL AND BIOMEDICAL ENGINEER
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TECHNICAL SKILLS

LANGUAGES: JavaScript, Python, C, C++, HTML/CSS, MATLAB
Algorithms and Data Structure: Stacks**,** Queues, Bubble & Sort, Inheritance, Singly & Doubly Linked Lists
Technical Skills: Circuit design, Oscilloscope understanding, PCB layout, 3D printing
TOOLS: Git, Adobe Photoshop, Autodesk Inventor (AutoCAD), Microsoft Excel, Microsoft Word, Microsoft PowerPoint, AD2, PSpice

EXPERIENCE

Team Lead Mississauga, Canada, Feb. 2021 - Aug 2024

- In charge of coordinating park rotations, assuring park attractions are safely monitored, assigning closing tasks to coworkers, and scheduling breaks. Developed excellent leadership and customer service skills ensuring satisfaction of all customer visits.

Audio-Visual Club, *Executive* Mississauga, Canada, Oct. 2020 - June 2022

- Operated stage lights, soundboards, and microphones for several stage performances

YMCA Youth Employment Workshop, Mississauga, Canada, July. 2018 - July 2018

- Participated in a paid workshop that taught a variety of useful skills to youth preparing to enter the work force.

PROJECTS

Personal Website (CSS/HTML/JavaScript) - Website

- Built a website using HTML and CSS from scratch utilizing bootstrap elements and hosted on GitHub

Created a dynamic Projects section that features academic and independently developed projects

- Incorporated problem-solving skills to ensure intuitive user interaction with the website

Snake (C/C++)

- Programmed a unique version of the popular snake game from scratch using high level OOD through C++

Learned how to work cooperatively on code at a high level of efficiency

- Learned how to optimize code time complexity through asymptotic analysis and appropriate algorithm application

Wrist Attached Inhaler Prototype (Python) – Autodesk Viewer

- Built a prototype of a wrist attached inhaler using a cam and follower mechanism on **Autodesk Inventor** and a **Raspberry Pie** programmed in python as the brains of the machine

Hip Implant (Python)

- 3D-printed a low fidelity prototype of a hip implant with a shape that was designed to specifically accommodate for a patient's condition using a **python** program that would suggest dimension parameters based on calibration questions

Further enhanced my skills with CAD and Autodesk Inventor

HONORS & AWARDS

Engineering Award of Excellence

- Offered a $3000 scholarship in recognition of academic success from my enrollment into McMaster University

EDUCATION

McMaster University Sept. 2022 - April 2027
Bachelor of Electrical Engineering – Biomedical Engineering CO-OP
Relevant Course Work: AI-Innovative Technologies (A+), Statistical Methods BME (A-), Biochemistry (A+), Mechanics (A-)