YOUSIF FADHEL

ELECTRICAL AND BIOMEDICAL ENGINEER

Mississauga, Ontario L5B 4A1

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TECHNICAL SKILLS

LANGUAGES: JavaScript, Python, C, C++, HTML/CSS, MATLAB, Latex

Algorithms and Data Structures: Stacks, Queues, Bubble & Sort, Inheritance, Singly & Doubly Linked Lists

Technical Skills: Circuit design, Oscilloscope understanding, PCB layout, 3D printing, FPGA Design

TOOLS: Git, Adobe Photoshop, Autodesk Inventor (AutoCAD), Microsoft Excel, Microsoft Word, Microsoft PowerPoint, AD2, PSpice, Quartus

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 in fast paced work environments

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 optimize code time complexity through asymptotic analysis and appropriate algorithm application
- Learned how to work cooperatively on code at a high level of efficiency

Automated Inhaler (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
- · Depicted leadership by managing a group of 4 peers and delegating the workload according to individuals' areas of expertise
- · Created a complex moving .IAM file that incorporated several different individual parts that are accurately constrained

Hip Implant Prosthetic (Python)

- Created a prototype of a hip implant with a shape that was designed to specifically accommodate for aseptic loosening
- Uses a python program that would suggest dimension parameters based on calibration questions
- Further enhanced my skills with CAD, Autodesk Inventor and 3D-printing

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-)