

YOUSIF FADHEL

ELECTRICAL AND BIOMEDICAL ENGINEER

Mississauga, Ontario L5B 4A1

416-824-0842 | yousiffadhel@gmail.com | yousiffadhel.github.io

TECHNICAL SKILLS

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

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

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

PROJECTS

Personal Website - <https://yousiffadhel.github.io/>

- 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

- 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

- 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

- 3D-printed a low fidelity prototype of a hip implant with a shape that was designed to specifically accommodate for a patients 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 - June 2027

Bachelor of Electrical Engineering – Biomedical Engineering CO-OP