

# HAKEEM SADIQ

## Computer Engineer

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📍 London, Ontario



## SUMMARY

I'm a Computer Engineer completing a degree in medical physics, with experience in both hardware and software projects.

## PROJECTS

### Development of the Double Frequency (19F/1H) Coil for a Clinical PET/MRI Scanner

📍 Lawson Health Research Institute

- Designing Radio-frequency (RF) coil to function at 19F frequency (115Mhz)
- Designing an RF shield to change the resonance frequency to 122MHz

### Fan Controller

- Arduino controller (C++)
- Receives input speed, 0 - 5 from keyboard, adjust fan speed accordingly, and outputs fan speed setting (LOW, MEDIUM, or HIGH) to LCD

### Ideal Heroes - Gamified Learning Mobile App

- Designed an application for teaching youth with intellectual interpersonal and intrapersonal skills (Android studio, Firebase)
- App included authentication, personalization, and mini-activities

### Brain-Computer Interface Experiment

- Worked with a team of 2 Engineering Students
- Created Shepard-Metzler mental rotation task simulation (Java)
- Captured brain signals using 64 Channel EEG (Biosemi systems)
- Processed and analyzed signals (MATLAB)

### Happy Chat - Client/Server Chatroom App

- Built server and client applications for multi-user chat (C++, Java)

## EXTRACURRICULARS

### Head Coach

#### WesternU Women's Football Team

📅 08/2021 - 06/2022

- Plan, schedule, and run all practices, meetings, and team events
- Coached team to an 18-0 record in the OWIFA league, winning all 3 tournaments participated in as a first year head coach
- 16-1 record winning 3 out of 4 tournaments including the provincial championship in 2022

## EDUCATION

### B.E.Sc Computer Engineering

University of Western Ontario

09/2016 - 05/2020

### B.Sc (Spec) Medical Physics (Year 4)

University of Western Ontario

09/2020 - Ongoing

## SKILLS

### Programming Languages and Technologies

C++   C   C#   microC   VHDL

Verilog   Java   JavaScript

Assembly/Machine   nodeJS

Python   SQL   Android Studio

Flutter   MATLAB   HTML5

Firebase

### CAD/Design Tools

Eagle   MicroCap   Quartus

Xilinx   Cadence

### Technical Skills

Object-Oriented Programming

Computer Architecture

Embedded systems

Network Architecture

Socket programming