

# 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

📅 02/2021 - 04/2021 📍 Lawson Health Research Institute

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

### The Settlers of Catan League Tracking

📅 12/2018 - Ongoing

- Created a web application to display game data with an SQL database solution (HTML, CSS)
- Developing a mobile application that gives users access to this data (Flutter, Firebase)

### Brain-Computer Interface Experiment

📅 10/2018 - 03/2019

- 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)

### Ideal Heroes - Gamified Learning Mobile App

📅 01/2020 - 03/2020

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

### Happy Chat - Client/Server Chatroom App

📅 11/2019

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

## EXTRACURRICULARS

### Head Coach

WesternU Women's Football Team

📅 08/2019 - Ongoing

- Plan, schedule, and run all practices, meetings, and other team events
- Coached team to a 18-0 record in the OWIFA league, winning all 3 tournaments participated in as a first year head coach

## EDUCATION

### B.E.Sc Computer Engineering

University of Western Ontario

📅 09/2016 - 06/2020

### B.Sc (Hons) Medical Physics (Year 3.5)

University of Western Ontario

📅 09/2020 - Ongoing

## SKILLS

### Programming Languages and Technologies

Assembly/Machine C++ C C#

microC VHDL Verilog Java

JavaScript nodeJS Python

SQL Android Studio Flutter

MATLAB HTML5 Firebase

### CAD/Design Tools

Eagle MicroCap Quartus Xilinx

Cadence

### Technical Skills

Object-Oriented Programming

Computer Architecture

Network Architecture

Socket programming Soldering