HAKEEM SADIQ

Computer Engineer

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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
- Designed and constructed High-pass Birdcage Radio-frequency (RF) coil to function at 19F frequency (115Mhz)
- Designed an RF shield to change the resonance frequency of the coil to 122MHz

Arithmetic Logic Unit

- 18 Operation ALU using the Basys3 FPGA (Verilog)
- · Operations include arithmetic, bitwise logic, and register control

Fan Controller

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

Ideal Heroes - Gamified Learning Mobile App

- Application for teaching youth with intellectual disabilities 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)

EXTRACURRICULARS

Head Coach

WesternU Women's Football Team

1 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 4 out of 5 tournaments including 2 provincial championships and placing top 5 in the nation in 2022

EDUCATION

B.E.Sc Computer Engineering University of Western Ontario

1 09/2016 - 05/2020

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

University of Western Ontario

₩ 09/2020 - Ongoing

SKILLS

Programming Languages and Technologies

VHDL	Verilog	C++	C	C#
microC	Java	JavaScript		
Assembl	y/Machin	e nod	eJS	
Python	SQL	Android	l Stud	io
Flutter	MATLA	в нті	ML5	
Firebase	!			

CAD/Design Tools

Xilinx	Quartus	Cadence	
Eagle	MicroCap		

Technical Skills

Computer Architecture

Object-Oriented Programming

Embedded systems

Network Architecture

Socket programming