JOSEPH GEORGES

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EDUCATION

University of Ottawa Sept. 2015 - Dec. 2019
Bachelor of Applied Science (B.A.Sc) - Electrical Engineering
Specialization in Control Systems

EMPLOYMENT

Oxford Learning Centre, *Mathematics & Physics Tutor*, London, ON Sept. 2019 - Current

- Assist up to three students simultaneously with various subjects including mathematics and physics
- Provide homework help, test preparation, and follow dedicated lesson plans assigned to each student
- Utilize excellent communication skills in order to provide great lessons in which students can benefit from
- Collaborate with students to determine student needs and improve future lessons

University of Ottawa, *IT Support Technician*, Ottawa, ON May 2018 - Apr. 2019

- Assisted with installation and configuration of classroom equipment including projectors, LCD screens, and podiums
- Regularly performed maintenance checks on educational equipment to ensure that it is up to date and operating as intended
- Provided solutions to instructors experiencing difficulties with classroom technology by troubleshooting and diagnosing problems
- Performed hardware and software upgrades on various machines and systems

University of Ottawa, *Electrical Engineering Research Assistant*, Ottawa, ON May 2017 - Aug. 2017

- Maintained and prepared laboratory equipment prior to and after work for the team
- Developed skills using laboratory equipment by assembling prototype circuits, utilizing oscilloscopes, waveform generators, and multimeters
- Documented on the progress and improvements of prototype circuit boards
- Verify test cases for software development and document results

SKILLS

LABORATORY EQUIPMENT & HARDWARE SKILLS: Digital Oscilloscopes, Function Generators, Multimeters, Circuit Prototyping/Testing, Microcontrollers, FPGAs
SOFTWARE TOOLS: PCB Design (Altium CircuitMaker), Block Diagram Design (Simulink), Schematic Simulation (NI Multisum), CAD Modeling (Fusion 360), PLC Ladder Logic (Allen-Bradley RSLogix500)
PROGRAMMING LANGUAGES: C, Python, MATLAB, VHDL, PLC Ladder Programming
PUBLISHING SOFTWARE: MS Office (Word, Excel, and PowerPoint)

PROJECTS

Engineering Design Project - Grid Based Navigation Robot Sept. 2019 - Dec. 2019

- Implemented a robotic navigation system to optimize shipping and handling for indoor warehouse environments
- Designed 3D models and printed robotic chassis and components using Fusion 360
- Utilized OpenCV library in Python to complete real-time image processing requirements while operating on a Nvidia Jetson Nano
- PCB Design using EasyEDA for the purpose of connecting the stepper motors to the motor drivers and an Arduino
- Participation in 2019 Design Day hosted by the Faculty of Engineering