

Zeid Yousef

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SKILLS

- Programming using C++, C, MATLAB, and Python.
- Engineering software such as LTSpice, Logisim, AutoCAD, OrCAD, and KiCAD.
- Microsoft Office Suite including Excel VBA.
- Analytical thinking, time management, and leadership.

EDUCATION

Bachelor of Applied Science Honors Electrical Engineering Co-op

Sep 2020 - Present

University of Windsor, Windsor, ON

Relevant Courses: Circuit Analysis, Electronics, Signals and Systems.

EXPERIENCE

Teaching Assistant

Sep 2022 - Present

University Of Windsor, Windsor, ON

- Holding weekly office hours on campus or online and grading assignments, midterms, or final exams.
- Data entry of student grades for assignments, tests, exams, and preparing class materials such as assignments, and presentations.

Production Associate

May 2022 - Sep 2022

Vistaprint, Tecumseh, ON

- Inventory tagging, tracking, binning in a dynamic time-intensive environment, monitoring SOPs and GMPs.
- Display initiative in managing multiple projects and ability to work with limited supervision.

Supervisor

Jan 2021 – March 2022

Burger Factory, Windsor, ON

- Filling all inventory as required and rotating stocks using FIFO.
- Training new hires and managing workflow.

VOLUNTEERING

Electrical Engineer

Jul 2021 - Sep 2021

Electrical Formula SAE Team member, Windsor, ON

- Working with a team of engineering students on designing and manufacturing a fully electric FSAE vehicle for the annual student design competition to compete in the various international FSAE events hosted.
- Attend weekly meetings to discuss team progress and next steps, as well as collaborate and integrate with other team members.
- Designing and creating multiple PCBs using KiCAD such as the LI-ion battery charger and H-bridge Arduino to control the current flow and change the rotation direction of the motor.
- Created documentation on the PCBs and started comprehensive testing of the component and integration in the electric vehicle.

ACADEMIC PROJECTS

H-Bridge Motor Controller Arduino PCB

University of Windsor, Windsor, ON

Jul 2022 – Sep 2022

- Designed an H-Bridge motor controller Arduino using KiCAD to control both the speed and the speed and the rotation direction of a motor.
- Used TC78H620 Toshiba microcontroller IC in order to control two DC motors and to control the flow of current to a load.
- Organized final written report and PowerPoint for a team presentation.

Li-ion Battery Charger PCB

University of Windsor, Windsor, ON

May 2022 - Jul 2022

- Designed a Li-ion battery charger using KiCAD to supply a rapid charge of current until the battery is almost fully charged, then will reduce the charge sent to the battery as the battery is almost full.
- Used different microcontrollers to increase product reliability and flexibility.

Water Level Alarm Circuit

University of Windsor, Windsor, ON

Sep 2021 - Dec 2021

- Designed a water level alarm using AutoCAD to detect the water level easily by hearing an alarm sound with respect to cost, safety, and quality.
- Generated initial, final drawings, and troubleshoot the design.

REFERENCES

Available upon request.