

Ziad Shamma

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Education

BSc. Electrical Engineering; Minor in Computer Engineering

University of Calgary - Internship Program

2021 – present

Expected Graduation - 05/2025

Skills

Hardware:

Embedded Systems, Digital Design, SystemVerilog, Vivado, MPLAB X IDE, LTSpice, Multisim, Advanced Circuit Analysis (Semiconductors, BJT & MOS circuits), Analog & Mixed Signals Circuits

Software:

C, C#, Python, Numpy, Sympy, Matplotlib, MATLAB, Git, Assembly Language, Machine Language, HTML, CSS, Java, Microsoft Office Applications

Professional:

Critical Thinking, Creative Problem Solving, Leadership, Team Management, Organization, Written and Oral Communication

Professional Experience

Junior Civil Project Coordinator

Kettle River Contracting

05/2022 – 08/2022

- Coordinated job site set up, mobilization, project administration and close out.
- Assisted in the implementation of new scheduling and on-boarding systems for on-site supervisors, laborers, and operators.
- Prepared project reports including execution methods, safety improvements, and cost tracking.
- Updated and managed project statistics including vendors, equipment data, and tasks completed on-site.
- Assisted in administrating processes to track equipment, material, and information.

Store Standards Associate

Walmart Canada

02/2021 – 08/2021

- Engaged and interacted with customers to answer questions and provide information about merchandise for sale.
- Worked as a team member to accomplish given workload to exceed expectations of supervisors.
- Maintained a well-stocked and orderly area throughout the store.

Community Involvement

Commercial Shoot - Extra

Joe Media Group

10/2019 – 10/2019

- Experienced multiple takes and re-takes of scenes
- Enhanced adaptability in unfamiliar environments

Sports Medicine Trainer

Ernest Manning High School

01/2019 – 06/2019

- Collaborated with school sports teams
- Assisted coaches with training and injury prevention/treatment on the field
- Emphasized effective communication skills to monitor player status during games
- Maintained composure and handled pressure situations while treating injuries

Projects

The Green Thumb - Autonomous Home Plant Irrigation Device

Second Year Electrical Engineering Design Project (ENEL 300)

- Used C to program AVR128DB28 microcontrollers to control sensors, motors, a relay and boost converter, a dial, a display, LEDs, a speaker, and other peripherals.
- Used advanced circuit building and analysis techniques to clean up signals using filters

Field Programmable Gate Array (FPGA) Stopwatch and Timer

Third Year Electrical Engineering Digital Design (ENEL 453)

- Utilized SystemVerilog tools and techniques to implement timer and stopwatch functionalities including multiplexers, synchronous logic resets, and combinational & sequential logic blocks
- Built Testbenches and simulation files to test functionalities of both the stopwatch and timer

Awards

- ILS Electrical and Computer Engineering Professional Skills Best Project Pitch (2023)
- Academic Honors Award at Ernest Manning High School (2019, 2020, 2021)