Ryan Nedjabat (He/Him)

Electrical Engineering Student

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Technical Skills

Programming
- C
- Verilog

Hardware
- Microcontrollers
- FPGA Design

Lab skills
- Soldering
- Oscilloscope

Software
- MATLAB
- Altium Designer

Design
- SolidWorks (CAD)
- Circuit/PCB Design

EDUCATION

University of British Columbia **Expected Graduation: April 2025**

Bachelor of Applied Science - Electrical Engineering

TECHNICAL WORK EXPERIENCE

Avigilon, Vancouver, British Columbia **Jan 2023 – August 2023**

Electrical Designer

- Applied circuity knowledge to troubleshoot, diagnose, and debug prototype power boards; provided a cost-effective solution allowing our design to adhere to compliance standards.
- Contributed to various design reviews and updated part and design documents within Motorola PLM software.
- Utilized network communication protocols to develop various test scripts for assessing the data transmission of Devices Under Test.
- Collaborated with various multidisciplinary groups to ensure effective communication and optimize productivity.

ANTLER Technologies & Start-Up Studio Corp, Toronto, Ontario **May 2022 – August 2022**

Control Engineer

- Designed CAD models using SolidWorks for chemical controllers, currently installed at numerous commercial pools across Toronto.
- Programmed C-based microcontroller to create a pool chemistry controller able to adjust levels of chemicals fed into the pool based on readings of pool sensor probes, allowing pools to run 25% more economically and environmentally efficient than manually managed pools.
- Optimized manually reading pH using computer vision removing the factor of human error when using pH test strips.

AR Construction Group, Toronto, Ontario **May 2021 – August 2021**

Electricians Assistant

- Installed various electrical equipment such as electrical panels and meters following Ontario electrical regulations.
- Communicated electrical deficiencies discovered onsite with an electrical engineer; recommended improvements and suggestions to improve current functionality.

ENGINEERING STUDENT TEAMS

Thunderbots, UBC **September 2019 – Present**

Electrical Team Lead

- Significantly increased the reliability of the object detection system by implementing new technologies and redesigning the existing configuration to improve resilience.
- Researched and presented sensor designs to executive team members to initiate further remodeling of the current system.
- Designed and produced PCBs in Altium to build a testing control system, which in turn provided empirical evidence of the robot's overall functionality.

TECHNICAL PROJECTS

CPU, University of British Columbia **September 2021 – December 2021**

- Programmed and designed a CPU using Intel Altera FPGA software able to store and recall information and carry out basic arithmetic functions in Verilog.