Seiya Nozawa-Temchenko

Electrical Engineering

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- Vancouver, BC
- in Seiya Nozawa-Temchenko

Education

Bachelor of Engineering

– Electrical and Computer

University of British Columbia

- **A**pril 2025
- **Vancouver**, BC

Technical Skills

Software

- Altium Designer
- AutoCAD
- LTspice
- MATLAB / Simulink
- ModelSim
- Quartus Prime
- RSLogix

Programming

- Assembly (ARM v7)
- C / C++
- HTML / CSS
- LaTeX
- Python
- Verilog / SystemVerilog

Hardware

- Reading / writing schematics
- Soldering
- Testing / debugging circuitry with analytical equipment

Languages

- Japanese Native
- Russian Native
- German Professional

Experience

Electrical Engineer

₩ July 2023 - Present

UBC ThunderBikes (Design Team)

♥ Vancouver, BC

- Designed and wired relay system, optimizing placement in a compact racing motorcycle area.
- Reviewed PCB designs with Altium, ensuring accurate component connections and placements; soldered components for final assembly.
- Conducted battery testing and wiring using the Orion BMS.
- Assisted in creating carbon fiber composites for cover and fairings.
- Developed MATLAB-based racing simulation to analyze track performance.

Control Systems Engineer

May 2024 - August 2024

BBA Consultants (Internship)

• Vancouver, BC

- Designed wiring diagrams and schematics for BC Hydro's Vancouver Island Terminal project using BlueBeam and AutoCAD.
- Developed Python scripts to automate organization in M-Files and Excel.
- Tested RSLogix ladder logic on PLCs for Valmet's Tailcutter project, involving sensor and alarm control.
- Configured and tested data logger system on PLCs for the Soo River Dam.

Maintenance Engineer

Esptember 2023 - April 2024

IKO Industries (Internship)

- Ashcroft, BC
- Automated repetitive tasks using Python, increasing efficiency by 3600% with scripts analyzing 4+ years of data.
- Managed PLCs using RSLogix, integrating sensors, cameras, and lights.
- Submitted design proposals to using Autodesk Inventor to address worker safety and machinery efficiency.
- Integrated two 20-ft Vertical Lift Modules by reviewing electrical and mechanical schematics and drawings.
- Estimated monthly material processing from quarry blasts using GPS coordinates in AutoCAD modeling.

Power Engineer

₩ September 2022 - June 2023

UBC Sailbot (Design Team)

♦ Vancouver, BC

- Contributed to Project Raye, an 18-ft autonomous, unmanned sailing mission from Victoria, BC to Maui, HI.
- Designed rudder motor controller to meet mechanical and software requirements.
- Programmed and tested solar panels, batteries, PCBs, and power systems; rewiring and fixing all post-launch issues.

Solar Sales Consultant

May 2021 - July 2021

SunPower

r ♥ Boise, ID

- Forecasted annual savings by comparing clients' kWh usage to their annual hours of usable sunlight.
- Promoted and sold solar panels to 97 homeowners, adapting pitches based on real-time observations.
- Executed sales plans, contributing to over \$300,000 in revenue growth.

Projects

Maximo Automation Script Suite (IKO Industries)

February 2024

Developed scripts with Selenium and xlwings, enhancing efficiency, data accuracy, and reporting in Maximo operations.

Communication Model for Noise Reduction (UBC, Design Studio II)

₩ June 202;

Developed a noise-reduction system using Verilog-based FPGA, achieving high sound fidelity and error correction.

Precision Circuit Thermometer (UBC, Design Studio)

June 2022

Developed a thermometer using Wheatstone bridge, op-amps, and Arduino, accuracy and optimized performance.

FPGA RISC Machine Processor (UBC, Microcomputers)

December 2021

Developed and synthesized a Turing complete RISC processor in Verilog on Intel's De1-SoC board.