

# Sav Sidorov

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<b>EDUCATION</b>	<b>University of British Columbia</b> , Vancouver, British Columbia Bachelor of Applied Science (BASC) in Electrical Engineering	Sept 2017 - Apr 2023
<b>WORK EXPERIENCE</b>	<b>Finni Health (YC W23)</b> , Toronto, Ontario <i>Founding Software Developer</i> <ul style="list-style-type: none"><li>• Ideated and implemented an automatic appointment scheduling system, saving parents and care providers ~400 hrs cumulatively</li><li>• Architected an algorithm to detect calendar scheduling conflicts, conditional on appointment type</li></ul>	May 2023 - Jul 2023
	<b>Qualia Research Institute</b> , San Francisco, California <i>Research Volunteer, Acoustics</i> <ul style="list-style-type: none"><li>• Built optimized processing pipeline for generating spectrograms &amp; chroma features from Julia sets in order to gain new insights into their sonic properties (Python, Google Colab)</li><li>• Implemented a customizable Risset rhythm generator, enabling generation of audio for use in full-body haptic interface to induce desired states of consciousness – a.k.a. qualia (MATLAB)</li></ul>	June 2021 - Aug 2021
	<b>Unico Power</b> , Calgary, Alberta <i>Software Development Intern</i> <ul style="list-style-type: none"><li>• Implemented the Open Charge Point communication protocol for EV smart charging units in C++ (prototyped implementation on an ESP32)</li><li>• Debugged and patched production software on 12 smart charging devices on-site, restoring full charge coverage per apartment building</li></ul>	Dec 2020 - Feb 2021
	<b>General Dynamics Mission Systems</b> , Calgary, Alberta <i>Software Development Intern</i> <ul style="list-style-type: none"><li>• Built comprehensive hardware and software test cases for 5+ product suite communication devices, increasing average test coverage by ~25% to improve quality control (LabVIEW, JIRA)</li><li>• Testing efforts achieved 10% lower expected production failure rate</li></ul>	May 2018 - Aug 2018
	<b>General Dynamics Mission Systems</b> , Calgary, Alberta <i>Software Development Intern</i> <ul style="list-style-type: none"><li>• Automated testing of in-development communication equipment, reducing test time by 75% by implementing Robot Framework test automation and allowing tests to be run through the night (LabVIEW, JIRA)</li><li>• Efforts produced savings of 160+ engineering hours per month</li></ul>	May 2017 - Aug 2017
	<b>UniTech Canada Youth Robotics Club</b> , Wuhan, Hubei <i>Co-op Instructor &amp; Curriculum Designer</i> <ul style="list-style-type: none"><li>• Developed and implemented a rigorous curriculum to teach middle school aged students electronics and coding, utilizing the Raspberry Pi ecosystem</li><li>• Taught Canadian high school math and physics curricula; 16 of my students achieved 85% or greater scores in testing, with an average improvement of &gt;20% in my student's grades</li></ul>	May 2019 - Dec 2019
<b>PROJECTS</b>	<b><u>Noise Detector &amp; Classifier</u></b> <i>Capstone (ELEC 491) Project for Breeze Traffic</i> <ul style="list-style-type: none"><li>• Implemented high accuracy real-time audio classification transformer model</li><li>• Roles: audio recording, processing, metric calculation, integration of components, ML model research and selection (Python / PyTorch / PostgreSQL)</li></ul>	Sept 2022 - Apr 2023
	<b><u>ByteCycler</u></b> <i>Crowdsourced graphs of media discourse on current events</i> <ul style="list-style-type: none"><li>• Built full-stack web app and onboarded over 50+ users</li><li>• Tech stack: React, Node.js, Express, SQL, Django, Azure, Javascript</li></ul>	Dec 2018 - Mar 2020
	<b><u>UBC Formula Electric</u></b> , Vancouver, British Columbia <ul style="list-style-type: none"><li>• PCB prototyping, schematic design (Altium), testing, and implementation of brake light module, increasing safety and ensuring regulatory compliance</li><li>• Team's first car achieved 7th place overall from 45 International Society of Automobile Engineers (SAE) teams at Formula North 2018</li></ul>	Oct 2018 - Apr 2019
	<b><u>FIRST Robotics Team 5897</u></b> , Calgary, Alberta <ul style="list-style-type: none"><li>• Led a team of 30 to build robots (2016, 2017) to compete at international venues (including world championship), ranking 6th out of 50 teams regionally</li></ul>	June 2015 - May 2017