

Sav Sidorov

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EDUCATION	University of British Columbia , Vancouver, British Columbia Bachelor of Applied Science (BASC) in Electrical Engineering	Sept 2017 - Apr 2023
WORK EXPERIENCE	Finni Health , Toronto, Ontario <i>Founding Software Developer</i> <ul style="list-style-type: none">[to be filled in in a couple months] Qualia Research Institute , San Francisco, California <i>Research Volunteer, Acoustics</i> <ul style="list-style-type: none">Built optimized processing pipeline for generating spectrograms & chroma features from Julia sets in order to gain new insights into their sonic properties (Python, Google Colab)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) Unico Power , Calgary, Alberta <i>Software Development Intern</i> <ul style="list-style-type: none">Implemented the Open Charge Point communication protocol for EV smart charging units in C++ (prototyped implementation on an ESP32)Debugged and patched production software on 12 smart charging devices on-site, restoring full charge coverage per apartment building General Dynamics Mission Systems , Calgary, Alberta <i>Software Development Intern</i> <ul style="list-style-type: none">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)Testing efforts achieved 10% lower expected production failure rate General Dynamics Mission Systems , Calgary, Alberta <i>Software Development Intern</i> <ul style="list-style-type: none">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)Efforts produced savings of 160+ engineering hours per month UniTech Canada Youth Robotics Club , Wuhan, Hubei <i>Co-op Instructor & Curriculum Designer</i> <ul style="list-style-type: none">Developed and implemented a rigorous curriculum to teach middle school aged students electronics and coding, utilizing the Raspberry Pi ecosystemTaught Canadian high school math and physics curricula; 16 of my students achieved 85% or greater scores in testing, with an average improvement of >20% in my student's grades	May 2023 - present June 2021 - Aug 2021 Dec 2020 - Feb 2021 May 2018 - Aug 2018 May 2017 - Aug 2017 May 2019 - Dec 2019
PROJECTS	Noise Detector & Classifier <i>Capstone (ELEC 491) Project for Breeze Traffic</i> <ul style="list-style-type: none">Implemented high accuracy real-time audio classification transformer model in a group of 5Roles: audio recording, processing, metric calculation, integration of components, ML model research and selection (Python) ByteCycler <i>Crowdsourced graphs of media discourse on current events</i> <ul style="list-style-type: none">Built full-stack web app and onboarded over 50+ usersTech stack: React, Node.js, Express, SQL, Django, Azure, Javascript UBC Formula Electric , Vancouver, British Columbia <ul style="list-style-type: none">PCB prototyping, schematic design (Altium), testing, and implementation of brake light module, increasing safety and ensuring regulatory complianceTeam's first car achieved 7th place overall from 45 International Society of Automobile Engineers (SAE) teams at Formula North 2018 FIRST Robotics Team 5897 , Calgary, Alberta <ul style="list-style-type: none">Led a team of 30 to build robots (2016, 2017) to compete at international venues (including world championship), ranking 6th out 50 teams regionallyWrote self-driving and teleoperating code in Java with one other team member	Sept 2022 - Apr 2023 Dec 2018 - Mar 2020 Oct 2018 - Apr 2019 June 2015 - May 2017