

EDUCATION	University of Toronto, Toronto, Canada <i>Master of Engineering, Electrical Engineering</i> Sep. 2022 – Jun. 2024 <ul style="list-style-type: none"> • Emphasis: Communications • Advisor: Prof. Raviraj Adve • MEng Thesis: “Pilot Training - Angle of Arrival and Channel Estimation in 5G Network”
	University of Toronto, Toronto, Canada <i>Bachelor of Applied Science, Electrical Engineering</i> Sep. 2017 – Jun. 2022 <ul style="list-style-type: none"> • Capstone Project: Convolutional neural network NPU Overlay (MobileNetV1) for FPGA (Intel Stratix 10) • Advisors: Prof. Vaughn Betz and Andrew Boutros
PUBLICATIONS (PEER-REVIEWED CONFERENCE)	1. Arash Ahmadian, Louis S.P. Liu, Yue Fei , Konstantinos N. Plataniotis; Mahdi S. Hosseini. Pseudo-Inverted Bottleneck Convolution for Darts Search Space. <i>IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)</i> , 2023. 2. Abnash Bassi, Yue Fei , Gilead Posluns, Mark C. Jeffrey. Optimized Priority Scheduling for Faster Scalable Belief Propagation. <i>The Association for the Advancement of Artificial Intelligence (AAAI) [In Submission]</i> , 2026.
AWARDS AND HONORS	Dean’s Honour List 2017 Fall, 2018 Winter, 2018 Fall, 2021 Fall, & 2022 Winter Edward S. Rogers Sr. Department Betz Entrance Scholarship (\$5,000) 2017
CERTIFICATE	Certificate in Engineering Business Jun. 2022
INDUSTRY EXPERIENCE	Qualcomm Markham, Canada Jun. 2024 – Jul. 2025 <ul style="list-style-type: none"> • Verified UWB receiver path and improved startup performance by reducing LNA charging delay 90% (20ns → 2ns).” • Validated WLAN CP-PLL synthesizer loop and built UVM-compatible test plans spanning 500+ channel indices, ensuring robust coverage across 2G, 5G, and emerging 5G alternative bands. • Developed multi-head GRU-based RNN for receiver gain line-up optimization, where each head learns one analog block (LNA, GM, TIA, BQ, PGA). Transformed a complex combinatorial tuning problem into a scalable learning-based approach, easing designer effort. • Built a physics-inspired MLP that predicts VCO capacitance from control inputs, removing the need for RF/analog designers to manually tune capacitors for 1000+ frequency targets. Alphawave Semi Toronto, Canada May 2020 – Jun. 2021 <ul style="list-style-type: none"> • Develop engaging content for social media platforms. • Prepare reports and presentations summarizing research findings.

PROJECTS	Advanced Optimization Techniques for Smart Grid Management <i>National Natural Science Foundation of China (NSFC)</i>	2023.01 - 2024.01
	Optimizing Urban Traffic Flow Using AI-Based Predictive Models <i>Smart Transportation Innovations Grant</i>	2021.12 - 2022.12
SKILLS	Languages: Chinese, English, French. Programming: Python, C++, MATLAB.	
ACADEMIC SERVICES	Reviewers for: <i>Journal of Operations Research and Optimization,</i> <i>International Conference on Optimization and Machine Learning,</i> ...	