Steven Shelestowsky

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Education

University of Guelph *Sept. 2022 – May 2027*
Bachelor of Engineering, Computer Engineering Co-op

Experience

University of Guelph Guelph, ON
Undergraduate Teaching Assistant *Sept. 2025 – Dec. 2025*
Sept. 2024 – Dec. 2024

- Mentored over 60 first-year engineering students in **C programming** fundamentals, assisting with debugging and ensuring their understanding of critical topics was sound.
- Led weekly laboratory sessions to discuss course concepts and introduce new topics, providing technical feedback during demonstrations of their code.

JMR Logics Niagara Falls, ON
Junior Software Developer *Jan. 2025 – Aug. 2025*
Apr. 2024 – Aug. 2024

- Designed an **embedded ticket verification system** using a **Raspberry Pi 4 Model B**, interfacing with GPIOs to control a turnstile and communicate with a web server for real-time ticket validation.
- Developed features for a Point-of-Sale system using **Ruby on Rails** and **Node.js**, including a client-facing contract management system.
- Ensured system reliability by resolving recurring bugs that impacted workflows while implementing backend features, maintaining data integrity across databases.

Projects

Vestibular Episode Tracker with Environmental Factor Correlation *Jan. 2026 – Present*

- Designing a **power-efficient, wearable sensor PCB** with coin-cell batteries, barometric pressure and IMU sensors to correlate environmental factors with vestibular symptoms.
- Integrating **RTOS-based firmware** for sensor sampling, gait analysis, and data logging.
- Implementing **BLE connectivity** for two-way data sync with a mobile app for visualizing sensor data and identifying symptom triggers.

Mixed-Signal 65nm IC Design *Nov. 2025 – Dec. 2025*

- Integrated and simulated a mixed-signal chip using **Cadence Virtuoso** and **Spectre**.
- Designed a **Switched-Capacitor Programmable-Gain Amplifier**, achieving 40 dB gain.
- Implemented a **6-bit SAR ADC** with charge-redistribution topology.

Niagara Bridges *Aug. 2023 – Present*

- Developed a full-stack iOS application from scratch using **SwiftUI** and **NestJS**.

Extracurriculars

University of Guelph Guelph, ON
IEEE Student Branch Chair *Feb. 2024 – Present*

- Direct the executive team of eight people to strategically plan events and budget.
- Plan events in collaboration with campus organizations and branches across Canada.
- Host around five events per semester, with average attendance of over 20 people.

Skills

Hardware and EDA: SystemVerilog, Verilog, Verilog-A, VHDL, Cadence Virtuoso, Spectre, KiCad
Programming: C++, C, JavaScript, Swift, HTML, CSS, Python, Ruby, PHP
Tools: Visual Studio Code, Vivado, Git, Oscilloscopes, SolidWorks, Quartus