Nikola Zupancic

📱 +1 (647) 774 2685 • ✉ nikola.z37@hotmail.com • 🌐 nikzu.dev

in nikola-zupancic • ⊙ github.com/c-ola

Education

Queen's University   **Kingston, ON**
Bachelor of Applied Science   *2021–2025*
Computer Engineering

Experience

Academic

Teaching Assistant – *Queen's University, Kingston, ON*   *January 2025–April 2025*
Undergraduate TA for Digital Systems Engineering
- Guided students in developing a 32-bit RISC CPU using Verilog during labs
- Delivered a tutorial on using ModelSim for simulation
- Evaluated student demos and reports on the CPU project

Research

Research Assistant – *Queen's University, Kingston, ON*   *May 2025–August 2025*
Undergraduate Research Assistant for Dr. Sean Kauffman
- Developed a dynamic instrumentation tool using eBPF and uprobes for Linux.
- Compared overhead and flexibility between dynamic instrumentation tools (Pin, eBPF)

Presentations

Instrumentation with eBPF – *Critlab, Queen's University, Kingston, ON*   *July 2025*
- Presented my research on instrumentation in Linux using eBPF

Scholarly Activities

Queen's Cybersecurity and Cryptography Club   *March 2024 - Present*
Co-Founder – Queen's CTF Team
- Represented Queen's at CyberSci Regionals 2024 in Ottawa, placing 3rd, 12th in Canada
- Competed in weekly CTFs with other students
- Lead team meetings, going over CTF challenges and other cybersecurity concepts