

KRISH PATEL

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EDUCATION - Toronto Metropolitan University

Computer Engineering Undergraduate - Deans List

Sept 2021 - Apr 2026

Computer Science Minor - Specialization in Artificial Intelligence

Jan 2023 - Apr 2026

PROFESSIONAL EXPERIENCE

Toronto Metropolitan Aerial Vehicles - *Communications Systems Lead*

Sept 2022 - Present

- Implemented a redundant drone RFD + LTE telemetry setup to the ground station
- Utilizing Raspberry Pi and Jetson module over LTE to effectively control the drone and cameras
- Employed platforms such as **Ubuntu 18/20**, Mission Planner, and Zerotier to streamline operations

Toronto Metropolitan University - *Mathematics Research Internship*

May 2022 - Aug 2022

- Enhanced **Calculus I** and **II** Courses for improved relevance to Engineering Students

TECHNICAL SKILLS + AWARDS

- Completed Cisco Certified Network Associate Course(**CCNA**)
- Programming Languages: Arduino, Assembly, C, CSS, HTML, Java, Matlab, PHP, Python, VHDL
- Networking: DHCP, Email Routing, OpenWRT, Unifi Wireless Lan Controller, TP-Link Switches
- Server Applications: Docker, DNS server, Internet Information Services (IIS), Termius
- Hardware Skills: Oscilloscope, Function Generator, FPGA Board, HCS12 CPU
- Operating Systems: CentOS, ProxMox, Raspian, Synology, Ubuntu(18, 20), Unix, Windows Server
- Final Cut Pro video editing for educational engineering [Youtube videos](#)
- Award: Excellence in Higher Level Business (International Baccalaureate)

PROJECTS

Home Server Setup: Windows Server + ProxMox + Synology

[LiveLink](#)

- Installed three servers that can be access globally using a private ZeroTier **cloud vpn** server or Twingate
- Running virtual machines on Hypervisor for Home Automation, Portainer and Wireless Lan Controllers
- Hosted websites using an IIS server, "Cloudflare Tunnels" on Windows Server 2019

Personal + Server Portfolio Websites

[Source](#) - [Link1](#) - [Link2](#)

- Built portfolios using HTML, CSS, and JavaScript to market my professional image

Library Store App - Expanded on University Project

[Source](#)

- Currently in progress of converting the local application into a containerized web app
- Spearheaded a team in the development of a single-window Java GUI application
- Strategically utilized UML diagrams to ensure comprehensive task planning and project execution

COMPETITIONS

Urban Sprawl - Population Metrics

[Source](#) - [LiveLink](#)

- Metropolitan Engineering Competition 2022 **1st**
- Developed a website utilizing **Python** processing to analyze UN population data
- Employed **chart.js** to graphically display the estimated top 10 countries with highest growth rates by 2030

Hospital Locator - Ontario Engineering Competition

- Managed "readingFile.csv" data, incorporating Ontario Hospital classifications, with key parameters

Aboriginal-English Language Translator

[Source](#) - [LiveLink](#)

- Designed a web translator for easy access to everyone and achieved **3rd** (2021 Ryerson Engineering Comp)