

# 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 control the drone
- 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**

- Programming Languages: Assembly, C/C++, CSS, HTML, Java, Matlab, PHP, Python, SQL
- Networking: DHCP, Email Server, OpenWRT, Unifi Wireless Lan Controller and Switches, **Port Mapping**
- Server Applications: Docker, DNS server, **Internet Information Services (IIS)**, Termius
- Hardware Skills: Oscilloscope, Function Generator, FPGA Board, HCS12 CPU, PID Controller
- Operating Systems: CentOS, ProxMox, Raspian, Synology, Ubuntu(18 - 23), Unix, Windows Server
- Final Cut Pro video editing for educational engineering [Youtube videos](#) and short movies
- Award: Excellence in Higher Level Business (International Baccalaureate)

## **PROJECTS** - For more projects: [Projects](#)

**Home Server Setup:** Windows Server + ProxMox + Synology

[LiveLink](#)

- Installed three servers that can be access globally using a private ZeroTier **cloud vpn**
- Running virtual machines on Hypervisor for Home Automation, Portainer and Wireless Lan Controllers
- Hosted websites using an IIS server routed through 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 and relay an anonymous form of communication via my contact page

**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 of a **MySQL** database 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)