Krish Patel

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Education

McMaster University — Hamilton, ON
Bachelor of Engineering, Computer Engineering — *Sept. 2024 – Apr. 2029*

Experience

Controls Team Member — Sept. 2025 – Present
McMaster Rocketry — *Hamilton, ON*

- Designed and manufactured STM32-based PCBs using **KiCad** for SRAD Avionics and Power Management
- Developed embedded software in **Rust** for real-time DAQ and control, used in Strain Gauges DAQ and Airbrakes
- Implemented **CAN Bus communication** protocols across multiple rocket subsystems, resulting in efficient data transfer

IT Technical Assistant Intern — Apr. 2025 – Aug. 2025
McMaster Housing and Conference Services — *Hamilton, ON*

- Improved check in/out for guests in **4000 rooms** with automated card scanner using Python, C++, and Scripting
- Automated StarRez and Axiom API calls for consistently running campus security updates
- Worked with Bluecat to switch campus network ports to available upon request saving **$250k+** in pilot project
- Utilized Microsoft Endpoint Configuration Manager and scripts to automate **100+** computer setups and updates

Information Technology Infrastructure Analyst Assistant — Sep. 2024 – Aug. 2025
Cyber System Solutions — *Brampton, ON*

- Provide technical support for **25+ mobile devices**, including setup and maintenance through Jira Support
- Refurbishing computers and performing repairs/upgrades on a budget
- Optimizing cloud infrastructure on Microsoft Azure including a hybrid server, and **10+ virtual machines**

CAD Training Coordinator — Oct. 2022 – June 2024
VEX Robotics at Central Peel Secondary School — *Brampton, ON*

- Guided **50+** junior students in mastering CAD software to design and refine competition-ready robots
- Delivered hands-on training sessions focused on efficient 3D modeling techniques using Autodesk Inventor Professional

Projects

Cluster Server | *Linux, Kubernetes, Tailscale, 3D Printing* — July 2025 – Present

- Up-cycling **4 computers** into a cluster server using a Tailscale network and Kubernetes containerization
- Will be used to efficiently compile code, and also as a NAS backup server accessible from anywhere
- Features a custom made 3D printed cooling case and an UI for backing up laptop or sending files

ThermaLink | *C++, App Inventor, Arduino, Raspberry Pi, 3D Printing* — Apr. 2025 – May 2025

- Designed and fabricated an innovative stove safety device that uses an infrared sensor to alert when the stove is on
- Bluetooth app companion that improves accessibility by sending audio alerts to phone
- Created for a client with Usher's syndrome with multiple iterations with feedback, under a **budget of $200**

MediTANK | *Python, Autodesk Inventor, ESP32, C++* — May 2024

- Made CAD/ESP32 prototype for medical evacuation vehicle in a hypothetical apocalypse
- Developed a radar system using a distance sensor and Python to process data and visualize nearby objects
- Created at Shopify/Hack Club Hackathon and presented in front of **100+ professionals**

Technical Skills

Languages: Rust, Python, C/C++, Next.js/React, MATLAB (Simulink), Scripting
Engineering: KiCAD, Inventor Professional, AutoCAD, Solidworks, ESP32, Raspberry Pi, Arduino, 3D Printing
Information Technology: Microsoft Office, Microsoft Azure, Active Directory, Windows OS, Jira Support
Certifications: Columbia University: Quantitative Techniques, Microsoft Certified: Azure Data Scientist Associate DP100 , Azure Fundamentals AZ900