Bipin Mahat

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Education

Seneca Polytechnic – Toronto, Ontario **May 2022 – Dec 2025**
Advanced Diploma in Computer Engineering Technology

Relevant Coursework: PLC Programming, Calculus, Statistics, Object Oriented Programming (OOP) in C++, Networking with Cisco, Microcontroller Programming, Machine Learning (ML), Artificial Intelligence (AI), Data Structures & Algorithms (DSA)

Skills

Languages: Python, C, C++, C#, HTML/CSS, Javascript, .NET
Frameworks: Fast API, React JS, Next JS, Express JS, Pandas, NumPy, Selenium
Developer Tools: Git, GitHub, Linux, AWS, Azure, MySQL, GitHub Projects, Active Directory

Experience

NEPTech Corporation **May 2021 – Mar 2022**
IT Support Specialist *Pokhara, Nepal*

- Provided technical support to clients, troubleshooting and resolving software related issues with a focus on **optimizing software performance.**
- **Managed Active Directory**, **reset passwords**, and **configured user permissions** to enhance security and access control.
- Maintained accurate records of **software-related technical issues**, **tracking resolutions**, and identifying opportunities for **process improvement**.
- **Developed automation scripts** using **Python & PowerShell**, reducing manual workload and increasing efficiency.

Seneca Polytechnic, Department of Applied Research **May 2023 – Dec 2025**
Hyflex ambassador and Lab Monitor *Toronto, Ontario*

- Assisted **800+** students, staff, and faculty with **IT troubleshooting** and **system maintenance**.
- Configured and maintained **AV equipment**, ensuring seamless **hybrid learning environments**.
- Re-imaged **Windows-based systems** and ensured compliance with **IT security policies**.

Projects

Automatic GoalKeeper Robot - Final Year Project | Python, OpenCV, Raspberry pi **Project**

- Developed an **AI-powered automatic goalkeeper** capable of detecting and blocking incoming shots using **computer vision and sensor integration**.
- Utilized **OpenCV in Python** to track the ball's movement and predict its trajectory in real-time.
- Integrated an **ultrasonic sensor** to measure ball distance and trigger the goalkeeper's movement.
- Controlled a **servo motor via Raspberry pi**, allowing quick directional adjustments based on the ball's speed and position.
- Implemented **MQTT protocol** for efficient communication between the Raspberry Pi and microcontrollers.
- Achieved **high accuracy in shot-blocking** through continuous calibration and machine learning-based optimization.

Leadership Activities

Seneca Science & Technology Guild **Apr 2023 – Sept 2024**
Team Member *Toronto, Ontario*

- Fostered **collaboration** and **mentorship** among students, boosting member **engagement** and facilitating **professional development** opportunities.
- Led initiatives to **introduce new technologies** to guild members, **organizing events** and **securing funding** to support **educational opportunities** and **skill development**.