

Yash Bhavsar

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EDUCATION

McMaster University

B.Eng in Electrical Engineering and Co-op

McMaster Honours Award(\$1000)

Relevant Courses: Object Oriented Design(Python), Microprocessor Systems(C, Python), Machine Learning(Python)

Expected Graduation, May 2025

Hamilton, ON

EXPERIENCE

AMD | Silicon Design Engineer Intern

May 2023 – Apr 2024

- Led LINT-based **code review across 10+ long-term projects**, addressing 100+ critical errors across cross-functional teams while ensuring clear and maintainable code
- Developed and deployed autonomous nightly test software using **C Shell** and **Python**, streamlining code design and testing, resulting in **20+ hours saved** per week
- Implemented and maintained a dashboard utilizing **PHP**, **JavaScript**, and **Perl**, to present real-time test results fetched from a **SQL** database, reducing the weekly workload by removing the need for manual updates

GBTEL | Technical Support Specialist

July – Sept 2022

- Identified and managed **50+** client networking issues involving infrastructure and cable faultiness
- Initialized wireless/fiber connections on administrative side by accessing IP addresses and researching local towers

PROJECTS

WealthHack

- Implemented a dynamic chatbot feature powered by **OpenAI API** with context to user data, providing personalized financial advice and enhancing user engagement with real-time, tailored recommendations
- Engineered a back-end server with **Flask** and **SQLite**, implementing CRUD operations for managing expense data

Personal Project Manager

- Designed a **React** based front-end that excels with HTTP requests, DOM manipulation, and routing to deliver a responsive and engaging user experience for managing and keeping track of projects
- Engineered RESTful API endpoints, maintaining data integrity through a structured **Mongoose** schema, comprehensive error handling and middle-ware
- Built a robust back-end, managing CRUD manipulated **NoSQL** data using **Node**, **Express**, and **MongoDB**

Autonomous Race-car

- Developed an embedded ROS control system, utilizing a **Linux** environment for configuration, development, and testing, resulting in successful navigation through 4+ tested routes
- Implemented a self-driving algorithm with **Python** for feedback control, and Li-DAR data processing, and **C++** for processing computational geometry data to achieve vehicle control and routing algorithms

Medical Withdrawal Monitor

- Applied **React** libraries to create a front-end authentication page, utilizing react-router-DOM for navigation, hooks for form submission, and bootstrap for a refined user interface
- Generated HTTP requests through fetch calls, enabling user management, and ensuring security with session storage checks

Embedded LiDAR Mapper

- Engineered an embedded **C** program for a TI micro-controller, using I2C communication, sensor initialization, precise distance measurements, and motor control to parse raw Li-DAR data
- Created a **Python** script for organizing and visualizing data from micro-controller through UART communication and matplotlib, including data storage, organization options, and 3D scatter plot visualization

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, Java, Perl, PHP, HTML5, CSS3

Frameworks: ReactJS, ExpressJS, NodeJS, Flask, OpenAI API, Material UI, numpy, Tkinter

Developer Tools: Linux, GitHub, MongoDB, Docker, Postman, Perforce, Jira, Confluence, SQL, XML

Concepts: Data Structures and Algorithms, Unit Testing, Agile Development