(306) 261-7056 | gillp28@mcmaster.ca | gillpavneet.github.io | github.com/PavneetG

PAVNEET GILL

A highly ambitious second-year Bachelor of Engineering student at McMaster University, motivated to develop professional experience in Computer Engineering. Working to acquire and expand upon expertise in optimizing code, debugging and maintaining applications, defect reporting, object-oriented design, and knowledge of front-end and back-end development. Adept at identifying goals, prioritizing, and resolving issues in initial stages of a project lifecycle to achieve success; consistently meeting and exceeding expectation in assigned duties.

HIGHLIGHTS

- Strong leadership and teamwork abilities developed while engaging with multidisciplinary teams across professional and academic careers; focused on productivity, cost control, and efficiency.
- Highly analytical, with sound judgment, and the capacity to enact rational and timely decision-making, problem-solving, and prioritization.
- Adeptly balance competing and shifting priorities while maintaining a confident, performance-focused demeanor; a critical thinker with abilities in reading, analyzing and interpreting data for reporting.
- Ability to swiftly build and foster professional relationships with peers, management, and clients; invoking tact, professionalism, and confidence in all written and verbal communication.

TECHNICAL EXPERTISE

Programming Languages

Java | C | C++ | Python | SQL— (Online Course) | HTML/CSS | VHDL

Software and Applications

Eclipse | NetBeans | AutoCAD | Inventor | Microsoft Office | Verilog

Operating Systems

Centos | Redhat | Ubuntu

EDUCATION AND EXTRA-CURRICULARS

Bachelor of Engineering—Computer Engineering (CO-OP), McMaster University **Current**

- Accepted with McMaster's President's/Honours Awards based on academic average
- *Relevant Courses include:* Principles of Programming, Data Structures and Algorithms, Microprocessor Systems

Autonomous Robotic and Vehicle Innovation Software Team

Technology Used: Ubuntu, Python, C++, Arduino, GitHub

- Strategically designing an autonomous vehicle to transport physically limited individuals across campus in collaboration with a team of peers.
- Successfully deploying Robot Operation Systems (ROS) to communicate with Arduino and external hardware from a cloud-based platform
- Contribute to weekly project meetings, ensuring the development of the vehicle follows all pre-set plans and proactively addressing issues.

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PROJECTS

Education Quiz Game - Portfolio (gillpavneet.github.io)

Technology Used: Java, Eclipse, GitHub

- Planned, designed, and developed an object-oriented quiz maker with sorting algorithms which served to allow teachers to test course knowledge; collaborated as part of a cross-functional team providing leadership and support as needed.
- Accountable for the creation and compilation of project schedules, Gantt charts, communication plans, and user documentation, aligning with strategic software development lifecycle stages.
- Hosted teleconference and sit-down meetings to help keep the customer updated on the project; provided troubleshooting and support for the application before release.

Line Follower Robot

Technology Used: C++, Arduino

- Succeeded in the development of a robot with autonomous navigation, control, and manipulation, ensured all project lifecycle stages were accounted for and planned proactively to mitigate delays or significant development issues.
- Met with peers to collaborate on the joint development and integration of tasks, including implementing machine learning algorithms such as PID.
- Integrated external hardware such as sensors and wireless control features using RFID.

PROFESSIONAL EXPERIENCE

Manager, Pizza Pizza — May – August 2018

- Optimized profits by controlling food, beverage and labour costs; documented daily employee hours, balance sheets, and commissary orders accordingly.
- Developed a comprehensive program which reduced error and unnecessary waste by automatically calculating commissary orders based on remaining stock.
- Designed an excel worksheet to assist in calculating pay for workers, sorting payments for employees by hours/days worked in a week.
- Maintained high-level customer care and satisfaction through direct interaction with customers, taking food and beverage orders, and generally enhancing guest experience.
- Compiled concise inventory reports for senior management, ensuring high-level organization for increased productivity and proper facility maintenance.
- Maintained accountability for supervision, management, and task delegation for on-duty staff, ensuring the kitchen area was stocked, clean, and that guests received orders accurately and efficiently.
- Assisted colleagues in improving the work environment and general productivity levels overall; going above and beyond to step in during periods of high-traffic and filling in for absent staff.