Balkarn Gill

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EDUCATION

Master of Software Engineering (M.Eng)   **Expected May 2024**
University of Calgary   *Calgary, Alberta*
- Organizations/Awards: GSA Academic Committee Vice Chair

Bachelor of Biomedical Engineering (B.Eng)   **Graduated May 2021**
University of Guelph   *Guelph, Ontario*
- Organizations/Awards: Dean's Honors List, Engineering Society, Robotics Team

WORK EXPERIENCE

Supply Chain and Logistics Manager   **October 2022 – April 2023**
Uline   *Milton, Ontario*
- Led and managed a team of 30+ direct reports to optimize performance.
- Maintained a focus on meeting daily volume output targets while adhering to strict cut-off hours.
- Implemented monthly incentives to boost team morale and recognize high-performing employees, resulting in a notable decrease in the department's error rate from 0.021% to 0.017%.

IT Consultant/Logistics Coordinator   **May 2021 – September 2022**
ATF Transport   *Woodbridge, Ontario*
- Contributed to the successful integration of new fleet management software by developing a customized solution that aligned with the company's unique requirements.
- Demonstrated exceptional troubleshooting skills by effectively identifying and resolving errors in the software and keeping the staff up to date with the latest functionalities and updates through regular briefings.
- Responsibilities included developing manuals and guidelines for computer systems, and leading training sessions on system processes to users.

Front-End Developer   **September 2020 – April 2021**
Carnostic   *Toronto, Ontario*
- Was responsible for defining, articulating, and executing the UX vision and strategy.
- Significantly contributed to the development of the user interface utilizing Sketch to visualize the design and React.js for implementation.
- Collaborated with key partners to continuously collect and review customer data and feedback for optimization opportunities and validation of user experiences.

Master Tech Lead   **May 2017 – August 2019**
Mr. Lube   *Milton, Ontario*
- Fastest employee to get fully certified and become a master tech lead in location history at the time, and consistently averaged annual sales exceeding $100,000.
- Supervised shop personnel, assigned technicians to the appropriate job duties, and responsible for opening/closing shop.

PROJECTS & LEADERSHIP EXPERIENCE

Autonomous Plant Disease Detection Robot   **January 2021 – April 2021**
Software & Circuitry Lead   *Guelph, Ontario*
- Coordinated a team of interdisciplinary engineers in building an automated "Pathfinder" which was programmed to weave through rows of plants on its own, avoiding obstacles and detecting signs of disease in plants.
- Temperature sensor, humidity sensor, and ultrasonic distance sensor were wired and programmed using Arduino, a hyperspectral camera was also wired into the design and programmed using C via a Raspberry Pi, and important data points were transmitted using a Wi-Fi module.
- Won 1st place in the F20 innovative engineering design competition at the university.

French Bulldog CT-Scan Apparatus   **September 2020 – December 2020**
Research and Development Lead   *Guelph, Ontario*
- Chosen out of 60+ applicants to design product for Dr. Alex Zur Linden from the Ontario Veterinary College.
- Purpose of the project was to create an apparatus that reduces visibility obstructions during CT-Scans for Brachycephalic dog breeds
- SolidWorks and ANSYS were utilized to create a fully working model that met all constraints/criteria of the client.

SKILLS

Languages/Frameworks: Python, Java, JavaScript, MATLAB, C++, TypeScript, React, Pandas, NumPy, Tailwind, Git

Technologies: SolidWorks, AutoCAD, CircuitLab, ANSYS, Revit, ORACLE, Primavera P6, MS Office, Visual 3D