# Aniket Goyal

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## SUMMARY OF QUALIFICATIONS

**Languages:** Java, Python, C++, HTML, CSS, PLC Ladder Logic, SPEL
**Applications:** Microsoft Excel, Word, PowerPoint, Outlook
**Technologies:** SQL, Microsoft Azure, Git

## EDUCATION

**Ontario Tech University** – Oshawa, ON, Canada                  **Sept 2019- April 2023**

- **Major**: Mechatronics Engineering, BEng (Hons) with minoring in AI and Machine Learning, GPA: **3.05/4.3**
- **Relevant Coursework**: Circuit Design, Industrial Automation, AI and Machine learning, Robotics and Automation, Control Systems, Actuators and Power Electronics, Mobile Robotics, Sensors and Instrumentation, Mechatronics Design, Real-Time Embedded Systems, Intro to Programming, Object Oriented Programming.

## WORK EXPERIENCE

**Ontario Tech University-** Oshawa, ON, Canada
*Design Studio Assistant*                  **Jan 2023- April 2023**

- Demonstrated a strong understanding of studios techniques and protocols and followed strict safety guidelines to ensure a safe working environment.
- Conducted quality checks on 3D printed products to ensure they met the design requirements.
- Successfully delivered high-quality 3D printed products to students on time, resulting in positive feedback and better student turn out.
- Collaborated with senior staff to develop efficient workflows and identify areas for process improvement in lab, resulting in successful completion of multiple lab projects.
- Demonstrated an ability to work effectively as part of a team, establishing positive working relationships with colleagues across the lab.

**Ontario Tech University-** Oshawa, ON, Canada
*Research Office Assistant*                  **Sept 2022- Present**

- Analyzed university's research contracts to enter in legal suits management platform resulting in reducing risk and improving day-to- day operations.
- Utilized **HTML** and **CSS** by creating high-quality social media content for the department resulting in better student engagement.
- Formulated meetings and partnerships between the Vice President of Research and Innovation and donors.
- Managed the university's research page using **cascade CMS** allowing easy maintenance and quick deployment.
- Created Campaigns on research data management for the university's social media handles which lead to higher impact numbers.

**Loblaws Companies Limited**– Oshawa, ON, Canada
*Cashier*                  **May 2020– Aug 2022**

- Promoted customer loyalty and consistently provided friendly service with knowledgeable assistance.
- Assisted customers by answering questions and fulfilling requests which resulted in more customer footprint.
- Nominated more than **60** times in the overall satisfaction survey by the customers for providing excellent customer service.

## PROJECTS

PLC Based Box Sorting and Manipulation System– **Ontario Tech University**                  **Jan-March 2023**
*Ladder Logic, Factory I/O*

- Designed and developed a PLC based box sorting and manipulation system for an industrial environment that received boxes from an upstream conveyor and sent them down to a packaging machine.
- Developed the PLC program using Ladder logic and utilized Factory I/O software for Rapid Control Prototyping in a virtual simulation environment to simulate the process and test the program's functionality.
- Integrated sensors and actuators into the system to ensure precise box sorting and manipulation resulting in a more effective industrial system.

Autonomous Search and Rescue Robot – **Ontario Tech University**                  **Sept-Dec 2022**
*C++, Microcontroller (Arduino), Git, Control theory*

- Developed and implemented an autonomous maze navigation algorithm in C++ utilizing a depth-first search approach and a PID wall follower to prevent collisions, resulting in accurate and collision-free maze solving on a physical robot.
- Designed and programmed a robot that navigates autonomously in a 2-level maze to rescue a miner.
- Utilized different sensors such as ultrasonic, time of flight and infrared to get the distance and fed it to the algorithm which makes decisions based on the data from the sensors.

Data set Manipulation- **Ontario Tech University**                  **Sept- Oct 2022**

*Python, PyCharm IDE*
- Restructured the data for better analysis. Dealt with large datasets of different categories namely regression, and classification, and restructured them by placing the target variable in the last column.
- Applied **Panda's** data frame and dictionary data structure in Python which divided the datasets into training and testing sets which were then used to train and test the ID3 Decision tree machine learning algorithm.

Synergy App- **Clean Tech Coast to Coast Challenge**                                         **July 2022**
*Python, GitHub, HTML*
- Collaborated and conducted extensive research to address the climate action challenge organized by the Brilliant Catalyst, showcasing exceptional skills in Collaboration, Research, Innovation, Strategic Planning, Presentation, and Climate Action, resulting in a **6th** place finish out of 18 teams from across Canada.
- Developed an app in Python with Firebase to detect household energy usage and reward good energy usage with redeemable carbon credits.

[I Talent](#) – **TH.0 Hackathon 2022**                                         **June 2022**
*HTML, CSS, Python*
- Ranked 2$^{nd}$ Overall- The best idea with a proper business plan.
- Designed and developed a job search platform prototype and talent marketplace for international students using HTML, CSS, and Python, applying user-centered design principles and agile methodologies to create a responsive and visually appealing website.
- Targeting 200,000+ students annually and aiming to break even within the first two years of launch, this project demonstrated skills in product design, project management, and business planning.
- Built with a mission to bridge the employment gap for international students and help them build meaningful careers in a new country.

[Kiosk Machine using Java](#) – **Self-Project**                                         **May 2022**
*Java, IDE Visual Studio Code, MySQL*
- Developed and implemented a fully functional ATM machine with login authentication using Java and MySQL, allowing users to perform banking tasks such as withdrawing and depositing money and checking their account balance, demonstrating strong programming skills, independent project management, and attention to user experience.

## LEADERSHIP EXPERIENCE

**Mitacs Inc-** Toronto, ON, Canada                                         **April 2023-Present**
*Globalink Mentor*
- Enabled undergraduate students from across the world to develop their research goals, plans, and troubleshooting abilities, leading to successful project completion and academic growth.
- Facilitated a positive and productive research environment for students, leading to successful project outcomes and enhanced academic and professional growth.
- Strengthened mentoring skills, led to improved student outcomes, and established a culture of continuous learning, leading to successful project outcomes and academic achievements.
- Helped students make informed decisions about their academic and professional futures, leading to successful graduate school applications, career advancements, and research opportunities.

**Enactus Ontario Tech**– Oshawa, ON, Canada                                         **Aug 2022 – Present**
*Outreach Lead*
- Organized meetings, and events for the development of the community-driven skill-series project under Enactus Canada
- Planned monthly skill-oriented workshops on AI used for business, financial literacy, community development**,** entrepreneurship, and company reviews leading **to 100%** more-member engagement.
- Increased the enthusiasm of the team by developing new outreach initiatives such as building partnerships with high schools, OntarioTechTalent thereby continuously allowing them to innovate and find new gaps in the market that needed to be addressed.
- Received Project Accelerator funding for the Project from RBC, Scotia, and HSBC worth **3000 CAD** which helped in growing the size of the project and the day-to-day operations.

**Ontario Tech University** – Oshawa, ON, Canada                                         **Jan – April 2020**
*Student Ambassador*
- Attended and promoted all the events associated with the University and represented the university at other engineering conferences.
- Coordinated event booths for clubs and societies for over 5 events.

## INTERESTS

Research | Software | Automation | Podcasts | Startups | Leadership| Product Design | Community Involvement