

SYDNEY NOVECOSKY

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OBJECTIVE

Critical thinking third-year engineering student, seeking an opportunity where I can utilize my current leadership attributes and problem-solving skills in a forward-thinking environment. I hope to work in a team environment where I can take on new challenges through my strong desire to learn.

SKILLS

- Strong proficiency with technology
- Passionate work ethic
- Proficient skills in Microsoft Office (Word, PowerPoint, Excel)
- Working knowledge of C++, MATLAB and Python
- Experience with Arduino, SOLIDWORKS, and Creo
- Detail oriented, Critical thinker
- Great communication skills
- Certified in First Aid/CPR and WHMIS
- PowerBI

EXPERIENCE

AUTOMATION MANUFACTURING ENGINEERING INTERN, HEXAGON A&P May 2023 – Present

Provide support to in-house production and supplier manufacturing sites by resolving manufacturing automation issues and preventing re-occurrence by making manufacturing hardware or software improvements and proposing product or process changes.

- Define, perform, and optimize preventive maintenance of manufacturing hardware.
- Schematic/wiring diagrams/PCB layout in Altium and mechanical design in Creo.
- Qualify the test/assembly solutions using techniques such as MSA, Gage R&R, SPC, and control plan validation.
- Code, test, and validate enhancements to the manufacturing automation software system.

ENGINEERING INTERN, SANJEL May 2022 – September 2022

Rotated through Sanjel's laboratory, equipment design department, and engineering department. Completing UCA, rheology, and free water testing in a laboratory environment. Used SOLIDWORKS to compute 3D models of new equipment designs implemented into a Twin SCM truck. Expanded by 3D printing knowledge while 3D printing small components for ongoing projects. Throughout, I built upon my PowerBI skills and completed many data analysis projects.

ENGINEERING INTERN, LAFARGE CANADA May 2021 – September 2021

Evaluated and analyzed existing and new data sets to generate fundamental insights and model product quality. Tested and finalized product to understand the process behind production. Collaborated in a cross-functional team (inc. engineers, mechanics, etc) to shadow multiple positions. Transformed engineered drawings into product for unique and standard projects with the use of wet and dry cast concrete.

OFFICE COORDINATOR, SIGNATURE PROPERTIES INC. June 2020 – August 2020

Provided basic office support through filing, scheduling, scanning, entering, and reviewing lease documents into PropertyWare. Providing general tasks enabled me to become efficient while understanding a range of procedures that take place in an office environment working under tight deadlines.

EDUCATION

BACHELOR OF ENGINEERING, QUEENS UNIVERSITY

September 2020 - Present

Completed my third year of studies, sustaining a 3.7 GPA. With a busy course-load, my organization and prioritizing skills have become extremely advantageous to me.

PROJECTS

OFF-GRID RESIDENTIAL STRUCTURE, QUEENS UNIVERSITY

Worked with clients to present a completely off-grid house to be built in the future. Working in a group setting researching and constructing design options that will allow for a fully functioning house independent of public utilities. Calculated heat loss in various areas to find the most efficient solution. Managed and took part in the modelling, financial aspects, and formal reports.

CLUBS

Queens Engineering Competition Co-Chair, QUEENS UNIVERSITY

May 2022 – May 2023

The Queen's Engineering Competition aims to inspire excellence through competition within the Faculty of Engineering and Applied Science. Delegates are invited to a conference-style case competition. As Co-Chair, I hired and lead a team of people for positions in areas such as speakers, sponsorship, logistics, marketing, finance, and more.

Leadership Skills Educator, QUEENS UNIVERSITY

May 2022 – May 2023

As a Leadership Skills Educator, I was part of the Student Experience Office's support team. Through the academic year, I would lead the Leadership Workshop Series. This is a set of workshops designed to broaden participant's perspectives on leadership, have them develop and practice key leadership skills, and provide opportunities for students to connect with like-minded peers in the Queen's community.

EngSoc, QUEENS UNIVERSITY

May 2021 – May 2022

Within the Engineering Society community, I have the role of the Caucus Coordinator. Organizing meetings for academic caucuses which are councils where students and faculty members discuss new opportunities and brainstorm solutions to challenges. With this position I have utilized my skill of organization and communication within a professional setting to help students speak their concerns.

QBIT, QUEENS UNIVERSITY

September 2021 – May 2022

The Queens Bio-mechanical Innovation Team conducts projects aimed to utilize cutting-edge mechanical, electrical, and chemical systems to design and manufacture physical solutions. I am working on the lightweight electric wheelchair project in the power systems sub team. Currently, we are working towards creating a circuit and finding the best battery to power our design. This design will be beneficial in making transportation of medical equipment easier.

AWARDS AND HONORS

- Earned first place in the 2022 Re-Engineer Competition
- Distinction of Dean's Scholar 2020-2023
- Engineering Diversity Scholarship, 2020
- Full Alexander Rutherford Scholarship for academic achievement

VOLUNTEER EXPERIENCE

BROWN BAGGING FOR CALGARY KIDS

December 2019 – Present

- Prepared and organized approximately 5000 meals for school-aged kids.
- Packaged meals efficiently within an hour and a half time frame.
- Effectively took direction from supervisors, while working as part of a team.

CADS (Canadian Adaptive Snowsports Association)

December 2023– Present

- Volunteer run charitable organization that makes skiing and snowboarding accessible to individuals with disabilities in Calgary.
- One-on-one lessons to children ages 8-15.
- Mainly teaching mono skiing and sit skiing.

INTERESTS

- Participated in competitive athletics throughout high school including dance, cross-country running and track and field.