

ALEXIS MULLIGAN

Chemical Engineering Student



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Emerald, PE

EDUCATION

| Bachelor's Degree

| Chemical Engineering
Dalhousie University
2019 - Present

| Certificate

| Biomedical Engineering
Dalhousie University
2019-Present

| Diploma

| Sustainable Engineering
UPEI
2017-2019

WORK EXPERIENCE

Student Project Lead

MDS Coating / April 2020-Aug. 2020

- Evaluated and analyzed the process of stripping coating from aerospace parts, reviewed potential solutions, selected the best option and tested this solution.
- Produced a 20+ page technical report on this project.
- Developed a production update and delivered it to the engineering team daily.
- Designed a spreadsheet that enabled all data to be graphed the same across all company projects.

Student Project Controls Specialist

J.D Irving – Irving Shipyard/ Sept. 2019 – Dec. 2019

- Improved the process of designing and creating nameplates for equipment on ships. Initially, the process included books, AutoCAD drawings and calculations by hand. The new process is digital and improved the efficiency by 50%.
- Produced a 30+ page technical report on this project.
- Completed daily reports and dashboards, assisting management in analyzing the company's operations.
- Observed steel repairs onboard ships, tracking progress daily.

SKILLS

| Professional

Communication
Problem-Solving
Leadership

| Technical

Project Management
Data Analysis (Excel)
Technical Writing

VOLUNTEER EXPERIENCE

Women in Engineering Society

President - May 2020-Present

Vice President - Dalhousie University /Jan. 2020-April 2020

- Give all female students a platform to be heard, and a position of power within the university.
- Plan and execute outreach programs for girls within the local community.

Vice President – GoEngGirl Conference / Sept. 2019 – Nov. 2019

- Designed the competition, with the top prize being a \$5000 scholarship.

PROJECTS

Queen Elizabeth Hospital – Walk Beside Wheelchair Project (Patent Pending)

University of Prince Edward Island / Nov. 2018 – April 2019

- Awarded Best Design Project in Year 2 from UPEI.
Best Design Creativity from Engineers PEI.
- Designed, built and tested a wheelchair add-on, which allows caregivers to push a wheelchair while walking beside the patient.