

COLE BRADLEY

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EDUCATION

McGill University

September 2019 - April 2024

Major in Honours Mechanical Engineering, Minor in Computer Science

CGPA: 3.89/4.00

- 1st Place in MECH 292 Design Competition out of 26 teams of 4 (April 2022)

WORK EXPERIENCE

Canadian Natural Resources Limited

May 2022 - August 2022

Project Engineering Intern

Horizon Oil Sands, AB

- Learned and applied various Project Management techniques such as earned value analysis for a major downstream project developing a VDU Heater with a budget of \$240 M.
- Conducting Quantity Surveying on-site to make sure contractors are meeting deadlines, ensuring the project schedule and budget are respected.

McGill University

January 2022 - April 2022

Teaching Assistant: Ordinary Differential Equations

Montreal, QC

- Prepared practice problems and taught a weekly tutorial online and in-person to 40+ students.
- Responded to students questions about the content and framed practice problems in different ways to help them better understand the questions at hand.

McGill University

January 2022 - April 2022

Teaching Assistant: Intermediate Calculus

Montreal, QC

- Prepared practice problems and taught a weekly tutorial online to 15+ students.

Canadian Natural Resources Limited

May 2021 - August 2021

Technical Safety Engineering Intern

Calgary, AB

- Tiered process safety incidents in Maximo to determine their severity rank & root causes.
- Developed a Major Conventional Facilities list using Excel to streamline future baseline HAZOP selection.
- Participated in PHA's for conventional facilities to help determine risks and consequences and how they can be mitigated for new designs and changes to existing process infrastructure.

PROJECTS

Stock Analyses Program

June 2022

- Uses technical analyses on the top 100 largest market cap companies in the S&P 500, utilizing the 50 day SMA and 200 day SMA to help determine if a stock is trending towards a buy price or a sell price.
- Uses functions from the yfinance and pandas library in Python to help determine and then present the buy, sell and watch list to the user.

Flag Deflection Numerical Analysis Project

April 2022

- Using MATLAB and Python in a group of 4 created scripts that ran numerous numerical analysis techniques such as numerical integration and determined the deflection of a flag for our numerical methods class final project.

LEADERSHIP EXPERIENCE

National Organization for Business & Engineering: McGill Chapter

May 2022 - Present

VP External

- Currently the main liaison between NOBE and various companies working to maintain these professional contacts and collaborating with them to organize recruiting/informational event for McGill students.
- Was previously a logistics director in 2021-2022 where I helped organize and run NOBE events.

SKILLS

Technologies

Python, Java, C++, C, Bash, HTML, CSS, MATLAB

Software

SolidWorks, Microsoft Office Suite

Languages

English, French (DELF B2)