

# COLE BRADLEY

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## EDUCATION

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### McGill University

September 2019 - April 2024

*B.Eng in Mechanical Engineering, Minor in Computer Science*

*CGPA: 3.87/4.00*

*McGill Engineering Competition Junior Design 2nd Place*

*November 2020*

## WORK EXPERIENCE

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### Canadian Natural Resources Limited

May 2021 - August 2021

*Technical Safety Engineering Student*

*Calgary, AB*

- Tiered process safety incidents in Maximo to determine their severity rank & root causes.
- Developed a Major Conventional & Thermal 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.

### McGill University

September 2020 - December 2021

*Academic Tutor*

*Montreal, QC*

- Taught multiple first-year University students in mathematics, physics, and other STEM courses.
- Formed strong relationships with students while helping them to learn advanced scientific concepts and improve from previously failing to succeeding in their classes.

## PROJECTS

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### Personal Website

August 2021

- Built from scratch a functional & responsive website to use as a portfolio of personal CS projects.
- Learned HTML and CSS through various online courses and video tutorials to create.

### Sudoku Solver

April 2021

- Solves 9x9 Sudoku's of all difficulties in less than 20 milliseconds using a backtracking algorithm and some added features to improve efficiency.
- Created using Java on IntelliJ for Intro to Computer Science final project.

## LEADERSHIP EXPERIENCE

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### National Organization for Business & Engineering: McGill Chapter

May 2021 - Present

*Logistics Director*

- Organized and executed with the events and executive team successful networking events, case competitions, & other professional development opportunities for students.

### Letters to Seniors Volunteer Writer

September 2020 - Present

*Volunteer Writer*

- Matched with a senior in a care facility who has limited outside contacts. Exchanging letters to establish a meaningful connection with someone of an older generation during the Covid-19 pandemic.

### McGill Engineering Orientation Leader

September 2020

- Led with 1 other leader a group of 10 students through a fall engineering orientation in a new online format due to Covid-19 restrictions.
- Created a welcoming environment open to questions and concerns new students had before beginning their first year of University.

## SKILLS

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### Technologies

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

### Software

SolidWorks, Microsoft Office Suite

### Languages

English, French (DELF B2)