

# **Eithin Pero**

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## **EDUCATION**

**Bachelor of Aerospace Engineering**

**September 2020-Present**

**Aerospace Structures, Systems and Vehicle Design, Co-op Option**

Carleton University, Ottawa, ON

- Fourth year standing, CGPA 10/12
- 2020-2021 Deans' Honour List
- Expected to Graduate December 2025

## **RELEVANT SKILLS, EXPERIENCES AND ACOMPLISHMENTS**

### **Technical Skills**

- Read, analyzed and implemented information from professional engineering drawings with ease to ensure assembled parts were correct and to standard for professional clients
- Applied skills to use Catia and Fusion 360 to model and convey information about systems, objects, and ideas to peers for collaboration on projects to increase group understanding of the project scope
- Programmed and tested a photo editing software built from scratch during a 4-month design project using python
- Have proficiency with the Microsoft Office Suit including Excel, Word, and PowerPoint to convey information in forms such as technical reports, presentations, and large data sets which helps convey information in a meaningful way
- Used MATLAB and Simulink in-course to analyze dynamic systems such as pendulums and servomechanisms

### **Communication Skills**

- Mediated disputes between customers and resolved customer issues at Canadian Tire by remaining composed and finding compromises, which kept customer flow smooth and orderly at checkout
- Prepared activities and facilitated games to support students and motivate them to get engaged and take breaks from their studies weekly, so students could meet their fellow schoolmates during an online school year
- Taught students course material and study skills as a Peer Assisted Study Sessions (PASS) Facilitator multiple times week which increased students understanding of engineering core concepts within the course
- Led a team of students through a truss design project conveying all important facets of the project and organizing self-made due dates to keep deliverables on schedule with Excel

## **WORK EXPERIENCE**

**Industrial Engineering Coop**

**May 2023-Current**

Collins Aerospace (RTX), Oakville, Ontario

- Reverse engineered, modelled, and drafted professional engineering drawings of special process tooling for manufacturing
- Designed and tested new tooling for various plating procedures which resulted in a more efficient and reliable procedures
- Undertook a self guided project to catalog and organize special process tooling to allow for the tracking of recurring preventative maintenance inspections in Microsoft Power Platform.

**Peer Assisted Study Sessions (PASS) Facilitator****January 2023-April 2023**

Carleton University – Centre for Student Academic Support

- Design, prepare for, and execute two 80-minutes workshops per week that summarize course content and teach it to students in a fun, engaging, and collaborative way
- Received one week of formal training regarding teaching strategies, communication skills, and professionalism to ensure students can be supported well through their course

**General Labourer/CNC Lathe Operator****Summers of 2020, 2021, and 2022**

Continental Conveyors, Napanee, Ontario

- Assembled high precision parts as specified by engineering drawings to meet client orders by deadlines
- Worked individually and as a team to assemble conveyor rolls for bulk materials handling equipment, to be used in various mines, quarries, and other industries worldwide.
- Optimized productivity by taking note of which method and order of assembly was the most efficient when working with large order jobs and allowed production to move faster than expected
- Addressed unforeseen issues like steel punch's breaking and having to quickly devise a method of preparing the broken pieces of metal to be welded together to enable workflow to continue

**Customer Service Representative/Store Clerk****May 2018-March 2020**

Canadian Tire, Napanee, Ontario

- Resolved customer complains quickly and efficiently by negotiating and compromising to keep flow smooth at checkout
- Counted large sums of money and large amounts of change quickly and precisely reducing backups at checkout
- Assessed shelf stock many times a day by recording all low or empty item locations and refilling all products keeping customer confusion and complains lower and their shopping experience seamless

**APPLIED PROJECTS****Captain of Design Team****September 2023-Current**

Troitsky Bridge Building Competition

- Leading a team of students through a two-semester long engineering competition in which teams must design and build a mini-bridge using mainly popsicle sticks and other materials
- Captains must design and devise a way to manufacture and construct a structurally viable bridge that will be tested alongside other teams from across Canada at Concordia university in February 2023
- Bridges must be analyzed using software such as Ansys to determine critical points in the bridge and knowledge of the core engineering concepts that were implemented in the bridge design will be tested in front of a panel of academics and industry professionals

**Team Leader****March 2021-April 2021**

Theoretical Truss Design Project

- Directed a team of students through a two-month design project consisting of a real world proposed roof design for a hockey arena by setting deadlines and delegating tasks which developed leadership skills
- Implemented professional drafting techniques to display all relevant information on truss design and static mechanics on engineering drawing developing useful engineering practices
- Created numerous layouts of the truss and employed Excel in every step of the design process to convey old information and new, revised information to allow easy access of information for group members