

## Work Experience

**Manufacturing Engineering Co-op** | Martinrea Tillsonburg | May 2025 – August 2025

- Designed, manufactured, installed, and tested an ejection system for sheet metal pieces in 9 different sub cells which previously caused over 2 and a half hours of downtime
- Modified tooling on a two large subassembly stations for a relocation of spot welds to increase jobs per hour (JPH) by 11.8 and reduce cycle time by 4.5 seconds
- Designed two separate mechanical and electrical part placement validation systems to ensure welds were properly aligned, saving over \$580 in lost parts

**Library Assistant** | Uxbridge Public Library | September 2023 – August 2024

- Shelving library materials, organizing shelves, and aiding patrons

## Skills

**CSWA | SolidWorks** – Modeling 3D parts and implementing designs into assemblies

**GMAW Welding** – Fundamentals of welding, created a sculpture of a scorpion using nuts, bolts and washers

**AutoCAD** - 2D modeling skills including proper dimensioning practices and sketching orthographic views

**Programming Languages** - C++, Python, PHP, MySQL, HTML, CSS

## Projects

**Robot Design** | Lead mechanical designer of a team to fabricate an autonomous LEGO pipe cleaning robot

**PHP & MySQL** | Created a Zork inspired game in PHP including a MySQL database for saving data

## Experiences

**Level 9 Practical Piano** - Royal Conservatory of Music | 2011 - 2024

**Shotokan Karate 1<sup>st</sup> Dan Black Belt** | Community Martial Arts | 2016 - 2024

**Schulich Leaders Nominee** | 2024

## Education

**University of Waterloo** 2024 – 2029

- Bachelor of Applied Science | BASc, Mechatronics Engineering