

# Dawson Elgood

AUTOMOTIVE ENGINEERING STUDENT

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## SKILLS

### CAD

- SolidWorks used on various tasks involving **Motional Analysis** and **FEA Analysis** as well as creating **BOMs** and **2D Engineering Drawings**
- Currently learning the fundamentals of **Siemens NX** for Ontario Tech Racing

### MECHANICAL

- Helping experienced friend with melting aluminum can with a **Forge** in order to make certain objects
- Aided in **refining** objects such as ingots with a **file** and **sandpaper**

### SOFTWARE

- C++

## PROJECTS

### Aircraft Landing Gear

- Prototype made from a Meccano kit as well as a syringe for hydraulics.
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### Autonomous Rickshaw

- Self-propelling rickshaw prototype designed for autonomous made from a Meccano kit

## EDUCATION

### Ontario Tech University

- B. Eng. Automotive Engineering  
Sept 2021 - Present

## EXPERIENCE

### Ontario Tech Racing | Chassis Department | Oshawa, Ontario

Oct 2022-Present

- Developing a plan of action for torsional testing of the car's chassis to ensure that current simulation values are accurate if structural changes are to be made.
- Adding insight for colleagues working on other projects such as: improving the ergonomics of the steering wheel and button placement.

### OMHA | Minor Hockey Official | Oshawa, Ontario

Oct 2022-Present

- Ensure the rules of the games are upheld for the integrity of the game and the safety of all the players on the ice
- Complete games as a linesman for levels up to U18AAA and as a referee for levels up to U13AAA
- Selected to represent Oshawa in the U16AAA Showcase and the U16AAA Championship weekend

### Pfaff Motorsports | Fuel Department | Vaughn, Ontario

Jun-Oct 2022

- Prepare the fuel to be put in and pumped out of the race car before and after each session
- Setup and teardown of the pitlane, and overall maintenance in the pitlane for race the weekend such as transporting nitrogen bottles and disposing of chemical fluids
- Member of the Pit Crew as the Deadman for fueling the car for all on-track sessions

### FEL Motorsports | Volunteer | Ontario, Canada

Jun - Aug 2022

- Technical scrutinizing for GT4, TCR, and RCC cars to ensure vehicle ride height regulations and wheel cambers are upheld under the appropriate tyre pressures.
- Ensuring proper tyre allocation for each competing car in all categories
- Operating as a race official in the pitlane during official sessions by communicating between competing teams and Race Control.

### Cavanagh Construction Ltd | Seasonal Labourer | Ottawa, ON

May 2020 - August 2022

- Shovelling and raking asphalt for driveways, road cuts, and paths
- Working around heavy machinery (Dump Trucks, Backhoes, Shuttle-Buggies).
- Using hand tools such as a quick-cut saw and propane tiger torch.
- Loading and unloading heavy equipment onto floats, such as asphalt rollers.