

# Yanshen Zhou

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## Experience

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### Midnight Sun Solar Rayce Car Team

Waterloo, Canada

#### Mechanical Core Member

January 2021 - Present

- Taught 10+ members SolidWorks modelling, FEA simulations, the iterative design process, and design documentation through running the Mechanical Onboarding Project in June 2021
- DFMA principles used in creating aero-chassis integration and material testing manufacturing plans
- Composites and material properties learned through onsite manufacturing for the Aerobody sub-team
- Co-lead the completion of pre-assembly tasks for the dynamics sub-team in August 2021

#### Structures Assistant Project Manager

June 2021 - Present

- Oversaw supplier interfacing and sponsorships for sub-team
- Organized training sessions, sub-team wide meetings, working sessions, and design reviews
- Budgeting and Microsoft Excel skills developed through authorizing sub-team purchases
- Responsible for communication and managing timelines within the mechanical team

### Welded Tube of Canada

Concord, Canada

#### General Labourer

May 2021 – August 2021

- Bundled 100+ US tonnes of steel tubes daily
- Teamwork skills from participating in mill changeovers
- Learned manufacturing process and uses of welded tube
- Flexibility and perseverance demonstrated working a rotating shift between morning and afternoon shifts

## Projects

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### Portable Fishing Boat

June – August 2020

- Spent 40+ hours customizing an Intex Mariner 4 inflatable boat with a trolling motor, fish-finder, and custom wooden deck
- Optimized portability and ease-of-use through iterative modifications

### Personal Website

July - August 2021

- Developed HTML, CSS, JavaScript skills
- Communication skills from documentation and presentation of biography, projects, and contact information

### Adjustable Table Design

February – April 2021

- Designed an adjustable standing table with a design team
- Final concept decided based on decision matrices
- Performed the verification of design of the engineering design specifications through FEA simulations

### CAD Fishing Lure

December 2020 - February 2021

- Modelled a fishing lure in SolidWorks using image-sketch and loft techniques

## Education

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Candidate for a BAsC in Mechanical  
Engineering

**University of Waterloo**  
2020 - 2025

## Skills

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**Computer-aided Design (CAD):** AutoCAD, SolidWorks (3D CAD + Simulation), SimScale

**Programming Languages:** C++, MATLAB, Python, Java, HTML, CSS, JavaScript

**Fluent Languages:** English, Mandarin