

# Evan Charrois



[evancharrois.com](http://evancharrois.com)



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## Mechanical CAD Designer | 3D Modeling & Prototyping

I am an enthusiastic and highly motivated individual with a strong foundation in design, construction, problem-solving, and technical innovation. Bilingual in French and English, I am proficient in multiple 2D and 3D modeling programs, including SolidWorks, OnShape, Fusion 360, Blender, and FreeCAD. I am also a Certified SolidWorks Professional (CSWP), experienced in Python programming, Arduino development, and robotics through the FIRST Tech Challenge.

A licensed Private Pilot with a lifelong passion for aviation, I am currently building a full-sized Van's RV-8 aerobatic aircraft. Beyond my technical pursuits, I have a rich background in the arts, having earned a Gold medal in Skills Canada Alberta for Joinery, and performed lead roles in musical theatre productions such as *Newsies* and *The Sound of Music*. Skilled in welding, blacksmithing, 3D printing, and creative set design, I bring a unique blend of engineering expertise, artistic creativity, and hands-on craftsmanship to every project I undertake.

## Work Experience

Mad Custom Cubs  
Westlock, AB

May 2025 - August 2025  
Custom Bush Plane Building Assistant

- Created detailed Solidworks designs for a Turbine Cub prototype aircraft
- Assisted in fabrication, assembly, and electrical wiring of custom bush planes
- Designed technical drawing for manufacturing of wheel hub assembly

Suncor Energy Edmonton Refinery  
Edmonton, AB

May 2024 - December 2024  
Project Engineering Intern Student

- Created and implemented multiple Construction Work Packages (CWPs)
- Collaborated closely with operations and conducted numerous site visits
- Assisted with tank and vessel maintenance, ensuring compliance with safety and operational standards

Syzygy Research & Technology  
Legal, AB

Sept 2017 - Present  
2D - 3D Designer & Fabricator

- Developed the architectural drawings for the Syzygy Astronomical Observatory
- Designed and constructed key set pieces for Fool's Gold - the Musical
- Created 2D & 3D Animations and Designs for Exambank.com
- Assisted with the development and building of a 30 kW Solar Array

Wolf Midstream Carbon Capture  
Sturgeon County, AB

May 2023 - August 2023  
Field Operations Carbon Capture Summer Student

- Performed well checks and maintenance on 16 well sites
- Supported operations staff with regulatory duties
- Certified in H2S Alive, Standard First Aid, ATSafety Professional Drivers Improvement Training, WHMIS

## Education

- 3 years Mechanical Engineering at the University of Alberta
- I became a licensed Private Pilot at 17 years old, and am also a licensed Class 5 Driver
- Graduated with Honours from Morinville Community High School in June 2022