

JACOB GAUCHER

MECHANICAL ENGINEERING TECHNOLOGIST/STUDENT

2+ YEARS EXPERIENCE IN PRODUCT
DESIGN AND MANUFACTURING

CONTACT

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EDUCATION

Bachelor of Engineering in Mechanical Engineering (BEng)

University of Victoria
January 2023 – December 2024
Expected Graduation December 2024

Advanced Diploma in Mechanical Engineering Technology

Camosun College
January 2022 – December 2022
GPA 3.64/4 | Dean's Honour Roll

Diploma in Mechanical Engineering Technology

South. Alberta Institute of Technology
September 2018 – April 2020
GPA 3.94/4 | Design and Analysis

References available
upon request

WORK EXPERIENCE

Mechanical Designer (Chassis and Suspension)

Arma Automotive Inc.

August 2022 – Present

- Design of a proprietary chassis connection system, retaining Motor Vehicle Safety Standard compliance.
- Synthesized and built a novel windshield wiper system, increasing efficiency of packaging.
- Design of mechanical automotive components, with an enthusiast driving dynamics focus.

CNC Operator (Co-op Position)

JS Foster Corp.

May 2022 – August 2022

- Operated CNC Mills and Lathes (Haas VF4, Puma 350) and inspected parts for compliance with specifications.
- Analyzed error codes and machining defects from various procedures.
- Researched mass finishing protocols to optimize systems for obtaining uniform surface finishing and deburring.
- Carried out First Article Inspections and Final Quality Assurance procedures.

Mechanical/R&D Designer (Design and Aerodynamics)

GiBLI Tech Inc.

June 2020 – May 2021

- Design of proprietary systems for Patent: WO2021108920A1.
- Employed CFD Software (SimScale) to create a novel sensor probe with higher accuracy wind speed readings (from 18% error to <1.5% of true value).
- Actualized all functional and aesthetic product components with an Additive Manufacturing ethos.
- Created consumer tool to eject debris from sensing cavities, without damaging pressure sensors which cannot be subjected to more than 500 Pa.

SKILLS

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|-----------------------------|------------------------------|
| - Fusion 360 | - Consumer Product Design |
| - Solidworks | - CNC manufacturing |
| - SimScale (CFD Simulation) | - 3D printing for production |
| - FEA Simulation | - Automotive Design |