Jared Crebo

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E D U C A T I O N

University of Calgary   **2019 - 2025**
Cumulative GPA: 3.51 / 4.00
- BSc in Mechanical Engineering, minor in Astrophysics

E X P E R I E N C E

Combat Engineer | Canadian Armed Forces   **Feb 2023 - present**
- **Basic Military Qualification Course**

Kearl Mine Engineering Business Intern | Imperial Oil (ExxonMobil)   **Jan 2022 - Apr 2023**
- **Renewable Diesel Project Manager (Site-Based) - [Link to Article](#)**
  - Managed the experiment of using renewable diesel fuel on our haul trucks and excavators at the Kearl Oil Sands Project
  - Collected and analyzed data in JMP and PowerBI to determine performance impact
- **Equipment Strategy Analysis**
  - Conducted Weibull failure analyses on excavator parts to create data-driven maintenance strategy
- **Root Cause Failure Analysis**
  - Conducted the failure analysis of a major crack found on an excavator
- **Dozer Rebuild Strategy Analysis**
  - Data-driven analysis of bulldozer operating requirements for the mine for the upcoming winter

E X T R A C U R R I C U L A R S

President & Mechanical Lead | Schulich Unmanned Aerial Vehicles   **2019 - 2023**
- **AUVSI Student Unmanned Aerial Systems Competition**
  - Lead the design and manufacturing of 3.5m wingspan UAV
    - Airfoil and stability analysis with XFLR5
    - Structural design on Solidworks CAD and analyzed using FEA with Femap/NASTRAN
    - Composite layups done for the wings, fuselage, and empennage with carbon fiber
- **SAE Aeroconnect Competition**
  - Designed VTOL-capable UAV to win first place in 2022
    - Propeller theory used to choose configuration based on energy efficiency requirements
    - CFD on Solidworks Flow Simulation used to validate sound level requirements

S K I L L S

- **Project Management**
- **Data Analysis**
  - Microsoft Excel (4 years)
  - JMP (1 year)
  - SAP (1 year)
  - Power BI (1 year)
- **Mechanical Design/Analysis/Manufacturing**
  - Solidworks CAD (3 years)
  - Composite material manufacturing (2 years)
  - General machine shop skills (1 year)
  - FEA using Femap/NASTRAN (1 year)
  - CFD using Solidworks Flow Simulation (4 months)
- **Coding**
  - Java (3 courses taken)
  - MATLAB (2 courses taken)
  - Python (1 course taken + 1 year work experience)