Jeremy Sabot | (604)-308-2211 | jeremy.sabot@wallawalla.edu | www.linkedin.com/in/jeremysabot
Mechanical Engineer | Aerospace Propulsion Interest | CAD/FEA/CFD

Education

Walla Walla University, *B.S. Mechanical Engineering, Mathematics Minor* (2022-2026) | GPA: 3.61/4.00

- **Relevant Coursework:** Combustion, Mechanics of Flight, Thermodynamics, Fluid Mechanics, Composite Materials, Vibrations, FEA, Heat Transfer, Instrumentation, Circuit Analysis, Linear Systems Analysis

University of California, Irvine - M.Eng., Mechanical & Aerospace Engineering (Incoming Fall 2026)

- M.Eng. Fellowship: $5,000 (tuition award)

Work Experience

Design Engineer (Internship) - Nelson Irrigation Corporation, Walla Walla, WA
June 2025 – Present

- Led design and build of a $250k water distribution test site while collaborating with executive leadership and senior engineers to deliver a scalable sprinkler validation system.
- Developed a CAD and testing workflow for tipping bucket gauge prototypes and iterated designs to meet coverage measurements needs for 150-foot sprinkler throw testing.
- Designed 3 plastic injection molded products (1,000 units/part) and iterated designs with advanced SolidWorks techniques and 3D printing.

Steel Worker (Internship) - Educan Institutional Furniture Ltd., Abbotsford, BC
Summer 2022 – summer 2024

- Operated steel fabrication equipment to produce furniture components to specification.
- Performed welding and electrostatic coating and supported shop workflow and quality finish consistency.

Teachers Assistant / Grader / Engineering Dept. Ambassador – Walla Walla University – Walla Walla, WA
Sep 2024 – Present

- Supported/taught physics labs, graded mechanics of materials & composite materials, led outreach/tours for prospective engineering students and represented the engineering department.

Projects

PROMETHEUS LEVEL 2 ROCKET PROJECT (Senior Project) -Lead, Airframe & Booster Design
Walla Walla University | Walla Walla, WA | Sep 2025 – June 2026

- Lead first stage booster and airframe design for two stage high power level two rocket and designed for integration of actively controlled guidance fins.
- Performed structural Analysis using FEA and CAD to identify stress concentrations and reinforce structure for expected launch thrust.
- Iterate design to target stability margin of 1.5 and support aerodynamic stability and fin design, including fin sizing, fuselage design and load-transmitting motor mount using CFD to streamline design and run flutter analysis.

Skills & Certifications

CSWA — Certified SOLIDWORKS Associate (Dassault Systèmes), 2024 | Credential ID: C-6YUC8BSFW5; ANSYS Professional Certification — Linear Stress Analysis in ANSYS Mechanical (Issued Dec 2025); OpenRocket; Computational Fluid Dynamics (SolidWorks); Engineering Drawings & Dimensioning; GD&T (ASME Y14.5); Test Planning & Validation; DFM (Injection Molding); Manufacturing Processes; 3D Printing (FDM/SLA); Hardware Selection (fasteners/threads); Fluid Hardware (tubing/fittings); MATLAB; Python; AutoCAD; Steel Fabrication; Oxy-acetylene Welding; Powder Coating; Machine Shop Tooling; PID Feedback; Microsoft Office

Leadership & Awards

ASME Vice President Sep 2024-June 2026

- Organized Events and supported student engagement while collaborating with peers and practicing leadership and communication
- Grew active membership from about 20 → 70

Edward F. Cross Scholarship Sep 2023- June 2026

- Recognized for excellence in engineering and academic achievement.

Dean's List Sep 2022- June 2026

- Maintained a GPA of 3.500–4.000 every quarter since starting undergraduate studies while completing 17+ credits.