

Kestin Kuhn

Centennial, CO | kestinkuhn@gmail.com | kestinkuhn.com

EDUCATION

University of Colorado Denver

Bachelor of Science in Mechanical Engineering

Denver, CO

Expected May 2028

- GPA: 3.9/4.0 | Dean's List (2024–Present)

EXPERIENCE

True Anomaly

Centennial, CO

Production Engineering Intern

Jun 2026 – Aug 2026

- Reduced spacecraft propellant-tank thermal-jacket material cost by 30% and estimated labor time by 80% while meeting all thermal requirements by redesigning the jacket.
- Brought 200 lifting-equipment assets from 85% expired or untracked to full OSHA and AS9100 compliance by leading fleet inventory, load testing, and tracking while implementing an improved visual inspection system.
- Reduced work-procedure creation time by 40% while improving consistency and error detection by developing internal authoring software that standardized the procedure-development workflow.

University of Colorado Denver

Denver, CO

Undergraduate Research Assistant — Continuous Fiber Composite Additive Manufacturing

Jul 2025 – Present

- Developed a carbon fiber slicing and post-processing system capable of generating machine-ready G-code.
- Designed custom equipment to support mechanical testing and characterization of additively manufactured composite specimens.
- Designing a single nozzle FDM 3D printer capable of printing both traditional fdm and continuous fiber models.

Engineering Programming Teaching Assistant

Jan 2025 – Present

- Assisted students with debugging and troubleshooting Python code.

Omni-X

Sheridan, CO

CNC Machinist

Aug 2024 – May 2026

- Designed and manufactured a custom part-extraction attachment for a CNC turning center, eliminating operator intervention.
- Programmed, set up, and operated 2-axis and 9-axis CNC machining centers for production manufacturing.

Lockheed Martin

Jefferson County, CO

Prototype Machining Apprentice

Jun 2023 – Aug 2024

- Worked in an AS9100 prototype facility producing aerospace components.
- Optimized metal additive manufacturing resurfacing process, reducing machining time by 70%.

PROJECTS & PUBLICATIONS

Peer-Reviewed Publication

- Co-author, "Dual-wall continuous fiber reinforced cellular structures made by fused filament fabrication," *Mechanics of Advanced Materials and Structures*, 2026.

Parol6 Six DOF Robotic arm

- Kitted, assembled, calibrated, and commissioned a six-DOF industrial robotic arm. control.
- Integrated custom tools on the arm and implemented pneumatic system.

3U CubeSat Mechanical Design

- Developed system and mechanical requirements through SRR and designed a 3U CubeSat structure.
- Designed the mechanical architecture for DFM, subsystem packaging, structural interfaces, and dual deployable solar-array integration.

SKILLS

CAD & Design: SolidWorks (CSWP Certification), Fusion 360, Autodesk Inventor, Experience with engineering drawings and GD&T
Manufacturing: 5-axis CNC Programming (MasterCAM), 9-axis mill turn, Manual Machining, Metrology, Metal based additive
Coding: Python (Machine learning models for fluid dynamics methods, Debugging, Scripting)