Luke E. Jensen

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EDUCATION:

M.S. Mechanical Engineering (ABET): **Anticipated Graduation Date: May 2026**
University of Colorado Boulder | Boulder, Colorado

B.S. Mechanical Engineering (ABET): **Graduation Date: May 2023**
University of Wyoming | Laramie, Wyoming

- EIT Certification
- Minor in Mathematics

WORK EXPERIENCE:

Rhino Staging | *Stagehand* | Denver, Colorado: **June 2025 – Present**

- Unloaded trucks; moved and organized heavy equipment safely and efficiently.
- Set up staging, lightning, audio, and video equipment for live concert events.
- Collaborated with tour crews and team members to safely meet production requirements.

University of Colorado | *Machine Shop Assistant* | Boulder, Colorado: **October 2024 – May 2025**

- Aided the shop instructor by providing support to the wobbler engine project.
- Trained and mentored new shop assistants to improve student learning and shop safety.
- Instructed students on safe operation of equipment including lathes, mills, band saws, and drill presses.

Colt by IWS | *Entry-Level Design Engineer* | Sterling, Colorado: **September 2023 – July 2024**

- Designed 3D assemblies and components (dump trucks, water tanks, and sprayer arms) using Autodesk Inventor.
- Authored technical manuals to assist technicians and operators with maintenance, repairs, and safe operation.

Intel Corporation | *Facilities Mechanical Engineer Intern* | Hillsboro, Oregon: **June 2021 – August 2021**

- Monitored trends and implemented a project to reduce speed for the water-sealed PVAC pump to reduce energy costs.
- Collaborated with engineers to successfully reconfigure rooftop air handler usage, reducing fan speeds and energy costs.
- Researched and proposed replacement strategies for a failing PVAC pump heat exchanger with engineers and vendors.

Colt by IWS | *Production Manager's Assistant* | Sterling, Colorado: **February 2018 – August 2020**

- Operated CNC plasma torch, roll, brake, and heavy equipment to fabricate truck components.
- Supported part fabrication, created mechanical drawings, and optimized shop workflow.

OTHER EXPERIENCE:

Theme Park Engineering and Design Club | *Club Treasurer* | *REC Mechanical Team Co-Lead* **February 2025 – Present**

- Managed budgeting, expense tracking, and funding proposals to optimize resource use and sustain club activities.
- Co-lead mechanical subsystem design for competition rides, following ASTM F2291 safety standards.
- Guided design and fabrication of ride mechanisms while collaborating with electrical and theming subsystems.
- Represented the club in national competitions, including the Ride Engineering Competition and Toronto Metropolitan Thrill Design Competition.

University of Wyoming Marching Band | *Head Tenor Saxophone Section Leader* **August 2019 – May 2023**

- Led Tenor Saxophone section and coordinated with the leadership team to support the marching band.

PROJECTS:

Reverse Engineering Project | Boulder, Colorado **August 2024 – December 2024**

- Collaborated in a team of four to analyze an Xbox One controller using DFMA, economic, and material methods.
- Performed analysis on design improvements to justify modifications to original assembly.
- Modeled full digital assembly in SolidWorks and proposed design improvements.

Human Centered Design Project | Boulder, Colorado **August 2024 – December 2024**

- Performed two iterations of the design process focusing on user centered design within a four-member team.
- Conducted user research with sixteen outdoor climbers throughout the process to guide design iterations.
- Developed and tested multiple prototypes with feedback-driven refinements.

Restoration of 1943 WWII Ford GPW Military Jeep | Sterling, Colorado **May 2020 – May 2024**

- Fully disassembled and restored vintage military GPW including structural repairs and major system rebuilds.
- Engineered a custom seating mechanism for test-driving without the body installed.
- Fabricated, welded, and finished body panels, including bodywork and HVLP spray painting.
- Reassembled GPW to original configuration, aiming for historical accuracy, restoring all functionality and appearance.

SKILLS:

- SolidWorks (CSWA)
- Autodesk Inventor & AutoCAD
- Design for Manufacturability/Assembly
- Human Centered Design
- Prototyping & Fabrication
- MATLAB & Python
- Blender 3D Modeling
- Machining (Manual & CNC)
- 3D Printing & Scanning
- Technical Writing
- Communication and Leadership
- ASTM F2291 Familiarity