

# DAVID RAPPE

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## WORK HISTORY

### **MECHANICAL DESIGN ENGINEER, DAIMLER TRUCK NORTH AMERICA – PORTLAND, OR**

*FEBRUARY 2024 – CURRENT*

- Use GD&T and CAD to create technical specifications and drawings for mechanical parts while coordinating cross-functional teams of engineers and suppliers. Manage DTNA parts database.
- Small parts optimization; consolidation of parts to reduce cost and increase design efficiency.
- Lead continuous improvement by creating standard work instructions and teaching software use.

### **QUALITY ENGINEER, DAIMLER TRUCK NORTH AMERICA – PORTLAND, OR**

*MARCH 2022 – FEBRUARY 2024*

- Reviewed electric vehicles, autonomous trucks, cameras and sensors, and other electrical hardware for safety and manufacturability. Manufacturing plant and prototype lab experience.
- PFMEA (process failure modes and effects analysis) expert. Responsibilities included pioneering, learning, using, and training others in APIS software, as well as owning meetings with a cross-functional team.
- Managed simultaneous projects using MS Teams, cPlace, and SharePoint. Reviewed and maintained quality in a cross-functional team, systematically tracking progress.

### **PORTAL UPRIGHT PROJECT LEAD, OREGON STATE UNIVERSITY BAJA TEAM – CORVALLIS, OR**

*MARCH 2021 – DECEMBER 2021*

- Designed portal uprights for the OSU Baja off-road car, modeled with SolidWorks and Siemens NX.
- Performed FEA and FMEAs to choose the most efficient materials and finalize a robust design.
- Programmed CAM with Siemens NX to manufacture portal uprights with CNC and VMC.

### **CONTRACTOR, KNOWMADICS INC. – HERNDON, VA**

*JANUARY 2020*

- Supported training activities for Army and Navy Special Operations units. Cannot detail; signed NDA.

## SKILLS

- PFMEA (APIS software), FMEA, FEA
- CAD, CAM, Surfacing (SolidWorks, NX)
- GD&T, Six Sigma, Lean
- Python, HTML/CSS, JS, C (Vibe Coding)
- CNC, tooling, fixture design
- Project management (cPlace, SharePoint)
- Arduino, MATLAB, dynamics, thermofluids
- Manufacturability, cost effectiveness, and marketability of parts and products
- Carpentry, crossbow-making
- Public speaking, technical writing, MS Office
- Silversmith (blowtorch, soldering, etc.)

## EDUCATION AND CERTIFICATIONS

### **BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, OREGON STATE UNIVERSITY**

*GRADUATED DECEMBER 10<sup>TH</sup>, 2021*

- GPA of 3.32, Dean's List, Honor Roll, Presidential Scholarship, Special Forces Association Scholarship
- HAM radio operator, GD&T certified at DTNA, SCUBA license (knowledge of pressure and fluid dynamics)
- FE exam scheduled for January 2026

## ABOUT ME

I'm David, and I am an engineer. My greatest passion is using my imagination and working with my friends to create, workshop, and think of new and exciting ideas. I use carpentry to make crossbows, I design board games, I'm a silversmith, and I write sword and sorcery novels. I love military history and strategy games, like Civilization. Challenging my brain and meeting new people fuel me. I vibe-coded my own professional websites for my portfolio and my board game company as well.