

DAVID RAPPE

1824 SE Taggart St., Portland, OR, USA

(503) 915-9837

<https://davidmrappel.github.io/David-Rappe-Website/>

www.linkedin.com/in/david-rappe-98355920b

david.martin.rappe@gmail.com

ABOUT ME

I am a mechanical engineer with 3.5 years of experience. I pride myself on problem-solving and my ability to learn new skills very quickly, such as teaching myself to code a website. As a perfectionist, I am passionate about finishing projects that I start. Quality is important to me, shown in my work on autonomous semi trucks at DTNA, as well as my personal projects, such as silversmithing and carpentry to create historical jewelry and crossbows.

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

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

EDUCATION AND CERTIFICATIONS

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, OREGON STATE UNIVERSITY

GRADUATED DECEMBER 10TH, 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

