LUCAS WILSON

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MECHANICAL ENGINEER

Experienced Mechanical Engineer with a strong background in automotive product design, advanced fabrication, sourcing, and diagnostics. Proven expertise in CAD design using SolidWorks and Fusion360, and hands-on experience with various manufacturing processes (injection molding, CNC machining, forging, casting, 3D printing). Demonstrated leadership in project management, quality control, root cause analysis, and supplier collaboration.

EXPERIENCE

DORMAN PRODUCTS – Colmar, PA

Mechanical Engineer I | June 2023 - Present

- Develop and optimize aftermarket automotive components while ensuring design for manufacturability (DFM) and compliance with industry standards.
- Utilize SolidWorks to create detailed CAD models and technical drawings, incorporating GD&T principles.
- Perform DFMEA evaluations and collaborate with cross-functional teams (engineering, quality, supply chain).
- Work with new and existing vendors across multiple countries to establish manufacturing processes, assess
 production capabilities, and ensure compliance with quality and performance standards.

EXTREME ULTRAVIOLET TECH (EUVTech) – Martinez, CA

Engineering Intern | July 2022 – August 2022

- Assisted in the manufacturing and assembly of high vacuum components in a cleanroom environment.
- Gained hands-on experience with precision machining using mills and lathes

HOUSE OF MOTORRAD – Boulder, CO

- Mechanic / Lead Mechanic | May 2021 June 2023
- Managed motorcycle rentals and provided technical leadership by training staff in diagnostics, repair, maintenance, and custom modifications.
- Quoted insurance companies and provided repair estimates for post-collision repair, honing skills in forensic analysis and quality assessment.
- Implemented a new inventory system, increasing parts availability and reduced downtime, demonstrating effective
 process improvement and project management.

EDUCATION

UNIVERSITY OF COLORADO – Boulder, CO

- Bachelor of Science in Creative Technology and Design, May 2023
- Major in Creative Technology and Design, College of Engineering & Applied Science
- Overall GPA: 3.2; Major GPA: 3.9
- Developed a high-endurance, on/off-road motorcycle for an engineering capstone project.

SKILLS

Technical Skills:

- CAD & Modeling: Advanced proficiency in SolidWorks and Fusion360; experience with 3D printing and completion of the SolidWorks CSWA certificate.
- Manufacturing Processes: Injection molding, machining, forging, casting, additive manufacturing.
- Quality & Process Improvement: DFMEA, GD&T, design for manufacturability (DFM), root cause analysis.
- Software: Microsoft Office Suite (Excel, Word, PowerPoint, Outlook), Linux, Docker, Proxmox, Visual Studio.

Personal & Leadership Skills:

- Efficient and creative problem-solver with a hands-on approach.
- Strong project management and people leadership skills; experience training and guiding teams.
- Excellent customer service and supplier relationship management.

ADDITIONAL PROJECTS

- Developed and working on building an open-source quadruped robot along with custom designed motor controller PCB's among other personal engineering projects.
- Maintains a portfolio website (WilsonFabrication.com) hosted on a self-built high-availability server.