

Clay Culpepper

clayculpepper@gmail.com

SUMMARY OF QUALIFICATIONS

- 4+ years of experience with engineering concepts
- 5+ years of experience with automotive repair
- Hard-working, hands-on learner, strong leadership skills, open to adapting to new concepts

RELEVANT EXPERIENCE

Manufacturing Plant Engineering Intern

May 2022-Present

Joy Cone Co, Flagstaff, AZ

- Worked with professional engineers on 75+ projects
- Worked on automating existing product lines
- Experience with Solidworks, and AutoCAD
- Designed support equipment for manufacturing process
- Internal communication with fabrication team and maintenance team to build new systems
- External communication with third party companies for specific projects
- Reverse engineered existing equipment
- Fabricated prototype designs, tested, and revised designs

Structural Engineering Intern

Summer 2021

Hubbard Merrell Engineering, Flagstaff, AZ

- Worked with professional engineers on 10+ civil structural projects
- Experience with AutoCAD, Risa 3d, Enercalc, and Bluebeam Revu
- Designed concrete foundation, wood buildings, and steel structures
- Reverse engineered existing structures
- Communicated with clients on specific projects

RELEVANT SKILLS

Manufacturing

- General knowledge of subtractive manufacturing, including milling, lathing, CNC milling, sheet metal flat patterns, and welding.
- Experience with additive manufacturing practices such as 3d printing

Mechanical Maintenance

- General knowledge of automotive, motorcycle and bicycle diagnostics, repair and maintenance. Designed, fabricated, and installed custom parts and assemblies. Designed, produced, and installed custom wiring harnesses. Proficient with automotive diagnostic and repair practices.

Computer Technology

- Proficient with operation, maintenance, and building of computers. Experienced with Windows and Mac operating systems. Proficient in Microsoft Office programs, AutoCAD, and Solidworks

EMPLOYMENT EXPERIENCE

Administrative Receptionist

August 2021-May 2022

Northern Arizona University, Flagstaff, AZ

- Assist faculty, staff, students, and visitors with their needs

Teaching Assistant

August 2020-May 2021

Northern Arizona University, Flagstaff, AZ

- Assisted in teaching civil engineering computer aided drafting class for NAU

EDUCATION

Northern Arizona University, Flagstaff, AZ

Expected Graduation: December 2023

B.S. Mechanical Engineering, Cumulative GPA: 3.41

Activities: NAU ASME Club member, Past NAU Cycling Club officer

Awards: Dean's List, Founders Non-resident Gold Tuition Scholarship