

Objective To obtain a temporary position that utilizes my mechanical engineering and CAD abilities at a model shop

Technical Qualifications CAD and Simulation – Approximately 2300 hours of experience in SolidWorks, 2200 in AutoCAD, 400 in Revit, and 200 in Inventor. Obtained Certified SolidWorks Professional (CSWP) license and all 5 CSWP Advanced licenses. Experienced with many Simulation features in SolidWorks Premium.

Prototyping and Manufacturing – As a CAD Prototyping Freelancer I model and 3D print many unique designs for clients. At Chandler Equipment I designed toolboxes while assessing material properties, costs, and manufacturing limitations. As the Manufacturing Lead for my capstone project I utilized 3D printers, CNC machines, machine tools, and other equipment to create a remote control aircraft.

Technical Writing and Drafting – Taught a GD&T course at a local community college. Created technical drawings for hundreds of products and wrote operation procedures for equipment at Chandler Equipment. Wrote much of my team’s capstone project report, which placed 9th out of 81.

Industrial Machinery – Operated several large CNC machines at Chandler Equipment. Passed a 10-week machine shop course to gain access to the university’s mills, drills, lathes, saws, and other machines.

Plastic Design – Acquired the CSWP Advanced – Mold Tools certification. Experience with plastic material properties and plastic design tools, such as mounting bosses, drafts, mold lines, and more.

Experience **Professor** NorthWest Arkansas Community College, Fall 2018 – present

- Taught CAD and machine shop fundamentals to students
- Learned time management in planning weekly lectures
- Developed public speaking ability



Contract Prototyping Specialist NWA3D, Jan. 2015 – present

- Quote, model, and 3D print prototypes for clients in my free time



Mechanical Engineer Harrison French and Associates, Oct. 2016 – Apr. 2018

- Used thermodynamic principles to design HVAC and water systems for buildings
- Utilized AutoCAD to create plans for new and remodeled buildings



Mechanical Engineer Chandler Equipment, Mar. 2014 – May 2015

- Made CAD models and technical drawings of hundreds of products
- Wrote operating procedures for several industrial machines



SOFIA Program Chief Engineer’s Assistant NASA, Summer 2012

- Performed a trade study for 5 aircraft internet options
- Helped design a device for finely moving a large, heavy scientific instrument
- Gave 3 design review presentations and shadowed several engineers



Industry Interests	Rapid Prototyping	CAD Modeling	Metal and Plastic Molding
	3D Printing	Product Design	STEM Education and Outreach
	CNC Machines	Electronics	Technical Sales

Education **B.S. in Mechanical Engineering**
University of Arkansas, Fayetteville, AR Graduated December 2013 GPA: 3.31
Engineer In Training (E.I.T.) Passed F.E. in November 2013



International Engineering Exchange Program
Polytechnic University of Turin, Turin, Italy February – August 2013

