

## Core Competencies

Sheet Metal Design for Manufacturing | 3D Modeling and Drafting | Explicit FEA Applications

## Technical Skills

### 3D Modeling & Analysis

- | AutoDesk
  - Inventor
- | SolidWorks
- | ANSYS Workbench

### Productivity Suites

- | Microsoft Office
  - Word
  - Excel
  - PowerPoint

### Programming

- | MATLAB
- | C
- | LaTeX
- | inventor iLogic (VB.net)

### Operating Systems

- | Windows 10
- | Linux
- | macOS

## Education

**University of Texas at Arlington**, Arlington, TX

- | Bachelor of Science in Mechanical Engineering (Graduated August, 2021)

## Semi-Trailer & Heavy Sheet Metal Design for Manufacturing

**Custom Trailer Engineering**, BT Trailer

- | Design Engineer
  - Design and develop 3D trailer assemblies that meet customer specifications & manufacturing feasibility.
  - Develop detailed assembly drawings for each unique trailer model and their respective sub-assemblies.
  - Design parts and draft drawings for formed sheet metal components.
  - Create comprehensive BOM's (Bill of Materials) for trailer going into production.
  - Forecast and devise solutions to manufacturing challenges that may arise on the production line.

## Mechanical Engineering Research

**Brain Injury Sensing and Prevention**, The University of Texas at Arlington

- | Lead Split Hopkinson Pressure Bar Designer for the Multiscale Mechanics and Physics Laboratory
  - Design and draft part drawings for machine shop requests and coordinate the requisition of system components from external vendors.
  - Design an analog to digital data acquisition system for strain gauge sensors and linear variable differential transformer velocity sensors.

## Relevant Coursework

- | Dynamic Systems Modeling & Simulation
- | Dimensional Engineering
- | Design for Manufacturing
- | Automatic Control Systems
- | Computer-Aided Engineering
- | Additive Manufacturing

## Work History

**BT Trailers**, Fort Worth, TX

- | Design Engineer, March 2024 - Current

**REI Co-op**, Southlake, TX

- | Retail Sales Specialist, May 2021 - January 2024

**University of Texas at Arlington**, Arlington, TX

- | Mechanical Engineering Research Scientist, November 2021 - May 2022
- | Undergraduate Research Assistant, January 2021 - August 2021

## Leadership

**Climbing Mavericks (UTA Rock Climbing Club)**, Member since Fall 2018

- | Vice President, Spring 2020 – Fall 2020