



Heidi Mansour

Design Engineer

Design engineer with 6 years of experience producing technical drawings in SolidWorks and AutoCAD for hydraulic, conveyor, and structural steel product lines. Managed a \$278,900 project budget for an actuator housing redesign and coordinated cross-functional launches that generated \$1.24M in first-year revenue. Holds a Certified SOLIDWORKS Professional credential and applies GD&T, DFMEA, and FMEA practices across all release packages.



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KEY SKILLS

- SolidWorks
- AutoCAD
- ANSYS
- GD&T
- DFMEA
- PPAP
- FMEA
- ISO 9001
- MATLAB
- Engineering BOMs

CERTIFICATIONS

- Certified SOLIDWORKS Professional, Dassault Systemes SOLIDWORKS, 2022

PROFESSIONAL EXPERIENCE

DESIGN ENGINEER | TYGART VALLEY MANUFACTURING CO., BRIDGEPORT, WV 2023 – PRESENT

- Produced 47 technical drawings per quarter in SolidWorks for a hydraulic valve product line, completing each release package an average of 8 days ahead of schedule.
- Managed a \$278,900 project budget for an actuator housing redesign, finishing the program 19 days ahead of the original milestone schedule.
- Coordinated with sales and manufacturing teams to launch 3 new valve assemblies that generated \$1.24M in first-year revenue.
- Applied GD&T and DFMEA practices to all drawing packages, reducing engineering change orders from 11 to 4 per quarter.

DESIGN ENGINEER | ELK CREEK INDUSTRIAL PRODUCTS LLC, CLARKSBURG, WV 2021 – 2023

- Created 38 technical drawings per quarter in AutoCAD and SolidWorks for custom conveyor components across 6 product families.
- Tracked and reconciled a \$274,100 annual design budget, delivering all 4 quarterly milestones within allocated funds.
- Developed mounting bracket assemblies that contributed \$847,300 in new product revenue during the first 14 months after launch.
- Conducted FMEA reviews on 9 subassemblies per release cycle, documenting risk scores and corrective actions for production handoff.

JUNIOR DESIGN ENGINEER | MOUNTAIN STATE FABRICATION INC., FAIRMONT, WV 2020 – 2021

- Drafted 31 technical drawings per quarter using AutoCAD for structural steel brackets and enclosures.
- Assisted senior engineers in preparing PPAP documentation packages, completing submission binders in an average of 6 days per part number.

- Supported a \$92,400 fixture redesign project, tracking vendor quotes and purchase orders to keep spending within scope.

EDUCATION

- Bachelor of Science in Mechanical Engineering
West Virginia University, Morgantown, WV | 2016 – 2020