# Michelle Lewis

## Manufacturing Engineer

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Manufacturing engineer with 6 years of experience designing fixtures in SolidWorks and Creo, managing supplier negotiations, and supporting ISO 9001 compliance across high-mix production environments. Renegotiated material specifications with 4 vendors, saving $291,400 per year while designing 21 welding, assembly, and drill jig fixtures that reduced setup time and part-to-part variation.

## Professional Experience

Manufacturing Engineer | Platte Basin Machining Group, Beatrice, NE
2023 – Present

- Reduced supplier costs by 13.59% on purchased castings and forgings by renegotiating material specifications with 4 vendors, saving $291,400 per year.
- Designed 9 welding and assembly fixtures in SolidWorks, cutting operator setup time by 14 minutes per changeover on a high-mix cell.
- Launched 2 new product introductions for agricultural equipment brackets, meeting production-readiness milestones within 45 days each.
- Analyzed statistical process data and updated engineering drawings for 37 active part numbers, keeping documentation current through 2 ISO 9001 internal audits.
- Completed purchase orders and equipment lists for 3 CNC tooling upgrades totaling $88,310.

Manufacturing Engineer | Nemaha Creek Fabrication Co., Auburn, NE
2021 – 2023

- Wrote work instructions and first-article checklists for 12 machined parts, cutting first-article rework from 5 reports a month to 2.
- Designed 8 CNC mill fixtures using Creo, enabling first-article approval on all 3 new product introductions within the fiscal year.
- Recorded production problems and corrective actions in the CAPA system, resolving 11 open items in an average of 6 days each.
- Prepared material and tool lists for 5 engineering change orders per month, keeping lead times under 48 hours from request to release.

Associate Manufacturing Engineer | Little Blue River Components Inc., Fairbury, NE
2020 – 2021

- Designed 4 drill jig fixtures in SolidWorks that reduced part-to-part variation and brought GD&T callouts within tolerance on 23 dimensions.
- Supported supplier cost reviews by gathering competitive quotes from 8 vendors, contributing to a 7.41% reduction on machined inserts worth $59,170 per year.
- Compiled weekly production reports for 2 assembly cells, tracking output of 1,180 units per week against scheduling targets.

## Education

Bachelor of Science Mechanical Engineering | University of Nebraska-Lincoln | Lincoln, NE
2016 – 2020

## Key Skills

- SolidWorks
- Creo
- Minitab
- GD&T
- FMEA
- ISO 9001
- CNC Machining Setup
- Fixture Design
- CAPA
- Supplier Cost Analysis