

Derek Simms

MECHANICAL FITTER

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SUMMARY

Mechanical fitter with 7 years assembling and fitting gearboxes, hydraulic units and heavy agricultural machinery to engineering drawings. Reads blueprints and GD&T, checks fits with micrometers and bore gauges, and torques joints to specification. Comfortable with overhead cranes, welding touch-ups and first-article inspection.

EXPERIENCE

- Mechanical Fitter**06/2022 - Present
Prairie Drive Systems
Wichita, KS
Builder of industrial gear drives and hydraulic power units for mining and energy customers.
 - Assemble gear drives and hydraulic power units to blueprints and GD&T, building **180** units a year.
 - Measure bearing fits and shaft diameters with micrometers and bore gauges, holding scrap under 1%.
 - Record torque specifications and actual values on travelers for 100% of bolted joints on each build.
 - Install hydraulic tubing and hoses, then pressure-test units, cutting leaks found at final test by 40%.
- Assembly Mechanic**03/2020 - 05/2022
Heartland Harvest Equipment
Hutchinson, KS
Manufacturer of grain carts and tillage equipment.
 - Fitted axles, hubs and drivelines on 600 grain carts using overhead cranes and hand tools.
 - Welded and ground small fabrication fixes on frames, avoiding line stops on 50+ units.
 - Performed first-article inspection on new models and logged 12 drawing errors for engineering.
 - Trained 4 new assemblers on mechanical assembly sequences and torque wrench use.
- Machine Shop Helper**06/2019 - 02/2020
Air Capital Machining
Wichita, KS
Job shop for aerospace tooling and fixtures.
 - Deburred and measured 2,000 machined parts with calipers and height gauges.
 - Set up fixtures for 3 CNC operators to blueprint requirements.
 - Organized the tool crib and gauge calibration log, finding 30 overdue gauges.

SKILLS

<u>Blueprints</u>	<u>GD&T</u>	<u>Micrometers</u>	<u>Mechanical Assembly</u>	<u>Torque Specifications</u>
<u>Hydraulic Tubing</u>	<u>Overhead Cranes</u>	<u>Welding</u>	<u>First-Article Inspection</u>	
<u>Attention to Detail</u>				

EDUCATION

- Certificate**05/2019
WSU Tech
Precision Machining Technology
Wichita, KS

CERTIFICATES

- OSHA 10-Hour General Industry**08/2022
OSHA Training Institute Education Center