

Ethan Gallagher

Staff Quality Engineer

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SUMMARY Staff quality engineer with 10 years in hydraulic and powertrain components, setting quality engineering standards across 3 plants. Leads APQP and PPAP for major launches, owns MSA and process capability analysis methods, and uses SAP quality data to target the defects that cost the most.

EDUCATION **Bachelor of Science** 05/2016
Bradley University Peoria, IL
Mechanical Engineering

EXPERIENCE **Staff Quality Engineer** 05/2022 - Present
Illinois River Hydraulics Peoria, IL
Maker of hydraulic cylinders, valves and pumps for construction and farm equipment, with 3 US plants.

- Set quality engineering standards for APQP, PPAP and control plans used by 14 quality engineers across 3 plants.
- Own MSA and process capability analysis methods, bringing **92%** of critical features to Cpk 1.67.
- Analyze SAP quality notifications to rank cost of poor quality, focusing CAPA work that cut warranty cost by \$1.2M.
- Coach plant engineers on root cause analysis and review 40 8D reports a year before they go to customers.

Senior Quality Engineer 07/2019 - 04/2022
Heartland Powertrain Components Bloomington, IL
Supplier of gears, shafts and housings for off-highway transmissions.

- Led PPAP for 2 transmission launches covering **140** part numbers, meeting every customer deadline.
- Rolled out SPC on 25 machining operations, cutting scrap from 3.8% to 2.1%.
- Hosted 6 customer and ISO 9001 audits with no major findings.

Quality Engineer 06/2016 - 06/2019
Tazewell Castings Pekin, IL
Iron foundry casting valve bodies and housings for hydraulic equipment makers.

- Ran Minitab capability studies on **80** casting features and resolved 12 porosity issues with the melt team.
- Wrote control plans for 35 new castings during a plant expansion.
- Trained 30 inspectors on gauge use, cutting measurement disputes with machining customers.

SKILLS APQP • PPAP • MSA • SPC • Process Capability Analysis • Root Cause Analysis • CAPA
ISO 9001 • SAP • Minitab

CERTIFICATES **Certified Quality Engineer (CQE)**
ASQ
2018

Six Sigma Black Belt (CSSBB)
ASQ
2020