# Prakash Nallathambi

**Quality Engineer**

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## SUMMARY

Quality engineer with 6 years in automotive and medical device manufacturing, working in root cause analysis, SPC and ISO 13485 audits. Led a fishbone and 5-why investigation that cut scrap on a stamping line by 32%, and built an SPC dashboard now used by 10 line supervisors. ASQ Certified Quality Engineer (CQE).

## EXPERIENCE

### Quality Engineer — Meridian Precision Devices

Dayton, OH · Feb 2022 – Present

- Led a fishbone and 5-why investigation into a recurring weld defect on a catheter assembly line, cutting scrap from 4.8% to 1.6% over 3 months.
- Built an SPC dashboard in Minitab pulling live data from 6 CNC machines, now checked daily by 10 line supervisors to catch drift before it produces a defect.
- Wrote and executed 18 process validation protocols (IQ/OQ/PQ) for a new injection molding line, passing FDA pre-approval inspection with zero findings.
- Ran monthly internal ISO 13485 audits across 4 production cells, closing 95% of findings within the 30-day CAPA deadline.
- Trained 25 operators on first-piece inspection and gauge use, cutting misread go/no-go gauge errors from 14 to 3 a quarter.

### Quality Technician, then Quality Engineer — Ridgeline Automotive Components

Troy, OH · Aug 2018 – Jan 2022

- Investigated a customer return spike on a bracket part, traced it to tool wear using a Pareto analysis, and set a 3,000-cycle replacement schedule that ended the returns.
- Built control charts for 5 critical dimensions on a stamping line, catching a drifting die 2 shifts before it would have produced out-of-spec parts.
- Supported 3 customer PPAP submissions, assembling capability studies and inspection plans that passed on first submission each time.
- Promoted from technician to engineer after redesigning the final inspection checklist, cutting inspection time per unit from 6 to 4 minutes.

## SKILLS

Quality systems: ISO 9001, ISO 13485, IATF 16949, CAPA management

Analysis: Root cause analysis (5-why, fishbone), FMEA, SPC, Minitab, control charts

Process: IQ/OQ/PQ validation, PPAP, gauge R&R, first-piece inspection

Tools: SAP QM, Excel, basic SQL

## CERTIFICATIONS

ASQ Certified Quality Engineer (CQE), 2021

## EDUCATION

B.S. Industrial Engineering, Ohio State University, 2018

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