Reese Pearson

Manufacturing Engineer
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SUMMARY

Manufacturing engineer with 6 years in automotive and electronics assembly, working in process design, root cause analysis and CNC programming. Cut scrap on a stamping line by 18% and led the changeover redesign that added 2 extra shifts of capacity a week. Comfortable running a DOE and standing on the floor to watch the fix work.

EXPERIENCE

Manufacturing Engineer — Palmetto Drivetrain Systems

Greenville, SC · Apr 2022 – Present

- Led a root cause investigation into a gear-housing scrap rate stuck at 6.2%, traced it to a worn locating pin, and cut scrap to 3.4% within 2 months.
- Redesigned the changeover sequence on 2 stamping presses using SMED principles, cutting changeover time from 54 to 21 minutes and adding roughly 2 shifts of capacity a week.
- Programmed and proved out 9 new CNC milling fixtures in Mastercam for a transmission housing redesign, hitting first-pass yield of 97% at launch.
- Ran a DOE on weld parameters for a bracket assembly that reduced porosity defects from 240 to 60 parts per month.
- Wrote and trained operators on 14 updated work instructions after a layout change, cutting new-hire ramp-up time from 3 weeks to 10 days.

Process Engineer — Blue Ridge Contract Electronics

Spartanburg, SC · Jul 2019 – Mar 2022

- Owned process control for a 6-station SMT line producing 40,000 boards a month, keeping first-pass yield above 98.5%.
- Led an 8D investigation into intermittent solder bridging, identifying a reflow profile issue and eliminating the defect across 3 product lines.
- Built SPC charts in Minitab for 5 critical dimensions, catching a drifting placement machine before it caused a customer return.
- Coordinated a line rebalance with industrial engineering that raised units per labor hour from 42 to 51.

SKILLS

Process: Root cause analysis (5 Why, fishbone), DOE, SPC, FMEA, 8D problem solving

Tools: Mastercam, SolidWorks, Minitab, AutoCAD, basic PLC troubleshooting

Methods: Lean manufacturing, Six Sigma (Green Belt), SMED, Kaizen events

Quality: GD&T, ISO 9001 audits, PPAP, first-pass yield tracking

CERTIFICATIONS

Six Sigma Green Belt, 2021

EDUCATION

B.S. Mechanical Engineering, Clemson University, 2019

Fictional example by FindAJobAI: the person, employers and numbers are invented.