JULIAN MERCER

MACHINIST

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PROFESSIONAL SUMMARY

Machinist with 9+ years producing aerospace and hydraulic components on manual mills, lathes, and CNC machining centers. Holds tolerances down to 0.0005 inch, proves first articles on the CMM, and keeps spindles running through smart fixturing and tooling choices.

PROFESSIONAL EXPERIENCE

Machinist Apr 2021 - Present
Collins Aerospace, Rockford, IL

- Machine titanium and Inconel housings for actuation systems on Haas and Okuma five-axis centers, holding true-position callouts to 0.001 inch.
- Cut cycle time on a 4140 steel fitting from 38 to 29 minutes by changing the roughing toolpath and moving to a high-feed insert.
- Run first-article inspections on a Zeiss CMM and write up deviations, helping keep customer rejects at zero across a 14-month stretch.
- Designed soft-jaw fixtures that let two operations be completed in one setup, which removed about three hours of changeover weekly.
- Train two apprentices on blueprint reading and offset adjustment, and both were running unattended jobs inside six months.
- Document tool life data in the shop log so the cell reduced insert spend by roughly 12% over a year.

CNC Machinist Jul 2018 - Mar 2021
Woodward, Inc., Rockford, IL

- Set up and ran Mazak lathes and vertical mills on fuel system components in lots from 25 to 400 pieces.
- Edited G-code at the control to prove out programs, and cut scrapped parts on new releases from 6% to under 2%.
- Checked parts with micrometers, bore gauges, and thread gauges every 10 pieces and logged results in SPC charts.
- Covered second shift for three months as acting cell lead, balancing six machines and handing off clean notes each morning.

Machine Operator Jun 2016 - Jun 2018
Ingersoll Cutting Tool Company, Rockford, IL

- Operated CNC mills producing tool holders, loading stock and offsetting tools to keep parts inside print limits.
- Moved from operator to setup after completing in-house training, taking over changeovers on four machines.
- Deburred and inspected finished parts and flagged recurring burr problems to the programmer, which led to a revised finishing pass.

CORE SKILLS

Blueprint and GD&T reading | CNC milling and turning | Manual mill and lathe | Fixturing and workholding | CAM programming (Mastercam) | G-code editing | CMM inspection | Precision measurement | SPC charting | Tooling selection | Titanium and Inconel machining | First article inspection | Lean cell practices

EDUCATION

Certificate in Machine Tool Technology, Rock Valley College, Rockford, IL

CERTIFICATIONS

NIMS Machining Level I Credentials, National Institute for Metalworking Skills | OSHA 10-Hour General Industry