

BISWARANJAN ROUT

MECHANICAL ENGINEER

(+91) 7008557341 • biswarout.er@gmail.com • Odisha, India

Versatile engineer with a robust Quality and Production background, ready to thrive in diverse engineering fields. Strong analytical skills, a dedication to continuous improvement, and a passion for making significant contributions to organizational growth.

CORE COMPETENCIES

TECHNICAL:

Eagle Eyes Quality Inspection Skill | Fundamental TPM Skills | Internet Tools Proficiency | MS Office Suite | Safety Compliance | Troubleshooting Ability

INTERPERSONAL:

Critical & Analytical Thinking | Self-discipline & Time Management | Trustworthiness & Reliability

INDUSTRIAL EXPOSURES

ACHIEVEMENTS, RESPONSIBILITIES, AND CONTRIBUTIONS IN EACH ROLE:

- **FINAL QUALITY INSPECTION (Metallic Catalyst Substrates)** Dec. 2023 – Jul. 2024
EMITEC Technologies India Private Limited Pune, Maharashtra

“In catalytic converters, metallic substrates made from stainless steel and coated with platinum, palladium, and rhodium facilitate the conversion of harmful exhaust gases into less harmful substances by providing a large surface area for catalytic reactions.”

RESPONSIBILITIES:

- Execute comprehensive final inspections of brazed components.
- Implement and uphold stringent quality control protocols.
- Optimize process parameters for superior product quality and efficiency.

- **QUALITY INSPECTION (Electric Water Pump)** Mar. 2023 – Sep. 2023
PV Clean Mobility And Technologies Pune, Maharashtra

“In an electric vehicle (EV), the water pump circulates coolant to manage the temperature of the battery pack, electric motor, and power electronics, ensuring efficient operation and preventing overheating.”

RESPONSIBILITIES:

- Conduct detailed visual and functional inspections and performance testing.
- Maintain precise records and implement corrective actions for quality deviations.
- Calibrate and maintain testing and measurement equipment.

- **ASSEMBLY LINE ENGINEER (Vehicle Axle Assembly)** Mar. 2022 – Sep. 2022
DANA India Private Limited Pune, Maharashtra

“The vehicle axle is essential for stability, steering control, and transferring power to the wheels, ensuring smooth movement and proper alignment while preventing wear on tires and suspension.”

RESPONSIBILITIES:

- Ensure high precision and adherence to quality standards in vehicle axle assembly.
- Collaborate with production teams to achieve and exceed production targets.
- Troubleshoot technical issues and optimize manufacturing processes.

- **PRODUCTION LINE CNC OPERATOR (Beginner)** Sep. 2021 – Feb. 2022
ALEX Grinder Private Limited Lonavala, Maharashtra

“Oil pipeline products manufactured here include seamless and welded pipes, elbows, tees, reducers, flow control valves, hydro cyclone valves, flanges, and corrosion protection coatings. These products meet industry standards for reliable transportation of crude oil, natural gas, and refined petroleum products.”

RESPONSIBILITIES:

- Follow safety procedures and maintain clean work areas and equipment.
- Set up, program, and operate machine tools according to blueprints, inspecting and verifying products.
- Measure tools, understand tool geometry, and adapt CNC programming with basic knowledge gained under supervision.

EDUCATIONS AND CERTIFICATIONS

- **GOOGLE Ecosystem**
- **DIPLOMA In Mechanical Engineering**
Government Polytechnic Kendrapara (GPK) • SCTE&VT, Odisha • 2021