

# SHIVAM S. MISTRY

Production & Quality Engineer

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## PROFESSIONAL SUMMARY

Production & Quality Engineer with 4+ years of experience in precision manufacturing, industrial process control, and high-accuracy machining. Specialized in stator, generator, and motor component manufacturing with strong expertise in tolerance management, thermal impact control, and process optimization. Proven ability to improve production efficiency, reduce rejection rates, and maintain high dimensional accuracy using SPC, Kaizen, 5S, and data-driven process improvement techniques.

## KEY PROJECT

### Estonia Stator Core Development Project

- Executed precision machining for export-grade stator cores under varying temperature conditions (30–40°C vs 1–5°C)
- Maintained dimensional accuracy within  $\pm 0.03$  mm using thermal compensation and controlled measurement techniques
- Ensured dimensional stability across environmental conditions, reducing rejection risk in international applications

## PROFESSIONAL EXPERIENCE

### Unisource Engineering — Planning & Production Engineer (Nov 2024 – Present)

- Achieved 120% of monthly production target (180 vs 150 units) across stator, generator, and motor frame machining
- Led a 30-member shopfloor team, improving manpower utilization and workflow efficiency
- Reduced rejection rate by ~5% through process control, inspection improvement, and root cause analysis
- Implemented SPC control charts to maintain dimensional tolerance within 0.07 mm range
- Shifted machining output towards process mean, reducing variation and improving consistency
- Optimized VTL, boring, drilling, and tapping operations to enhance machine utilization and cycle efficiency
- Applied thermal expansion considerations to maintain dimensional accuracy in varying environmental conditions

### V & K Engineering — Production Engineer (Nov 2022 – Nov 2024)

- Performed dimensional and welding inspections for fabricated structures and heat exchangers
- Conducted NDT testing as per applicable standards and quality requirements
- Planned production schedules and optimized resource allocation for timely execution
- Coordinated hydro testing, quality clearance, and dispatch operations

### Schaeffler India Limited — Quality Engineer (Nov 2020 – Oct 2022)

- Managed quality inspection processes in bearing manufacturing
- Conducted HNO<sub>3</sub> testing and implemented shopfloor process systems (SPS)
- Improved product quality using Kaizen and Poka-Yoke techniques
- Handled calibration and inspection of precision measuring instruments

## TECHNICAL SKILLS

- Production Planning & Control, Quality Assurance (QA/QC)
- Precision Machining, Fabrication, VTL & Boring Operations
- SPC, Control Charts, Kaizen, 5S, Poka-Yoke
- NDT Testing, Welding Inspection, Root Cause Analysis

## MEASUREMENT & INSPECTION TOOLS

- Outside Micrometer, Inside Micrometer
- Height Gauge, Slip Gauge
- Thread Gauge (Go/No-Go), Feeler Gauge
- Surface Roughness Tester

## **EDUCATION**

Diploma in Mechanical Engineering — Shri K.J. Polytechnic (2017 – 2020)