

# NIKHIL JANGIR

Senior Equipment & Process Engineer | Jigs & Fixtures | Testing & Validation | Team Leader

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Valid Passport Holder | Open to India & Overseas Relocation

## Professional Summary

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Equipment and Process Engineer with 6.5+ years of experience in mobile manufacturing automation, RF and idle current testing, machine modification, jigs and fixtures development, and IATF 16949:2016 engineering documentation. Strong expertise in handling 1-axis to 6-axis equipment, PLC/HMI program backup, and high-volume production environments. Proven success in process validation, line balancing, cycle time optimization, FPY improvement, and cross-functional collaboration during new model launches for Xiaomi, OPPO, Vivo, POCO, and Realme.

## Core Technical Competencies

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Automation Testing communications (USB serial, COM, RS232/485/422) • RF Testing (CMW100, CMW500, Eragon, HQ Software) • Idle Current Testing • PLC/HMI Backup (FPWIN GR7, Weinview) • Machine Modification • Jigs & Fixtures • Sensors (NPN/PNP, Photoelectric, Magnetic) • Pneumatics • Robotics (J1–J6, Cartesian Axes) • Process Validation • Line Balancing • Cycle Time Optimization • Yield & FPY Improvement • SPC Basics • RCA (5Why, Fishbone) • IATF 16949:2016 • Audit Compliance • Team Leadership

## Professional Experience

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**DBG India Technology Pvt. Ltd.**, Bawal, Haryana

*Machine Engineer / Team Leader (L4.2)*

**July 2023 – Present**

- Led automation testing, RF testing, and idle current testing for mobile manufacturing lines.
- Improved MTTR, MTBF, and OEE through structured RCA, preventive maintenance, and process stabilization.
- Performed PLC and HMI program backup for new and legacy machines using FPWIN GR7 and Weinview.
- Designed and modified manual, semi-automatic, and fully automatic jigs and fixtures for new model launches.
- Integrated photoelectric, magnetic, and limit sensors to enhance machine accuracy and safety.
- Executed RF testing and debugging using Rohde & Schwarz CMW100 and CMW500 instruments.
- Maintained BRT, BTB Press, CCD Inspection (LokS, Innovision), Plasma Cleaning (SDP-3200/5200), Screw Machines, Idle Current Testers.
- Operated and maintained industrial robotic arms (J1–J6) and Cartesian axis systems.
- Supported process engineering activities including line balancing, cycle time reduction, and process validation.
- Improved FPY and stabilized mass production through close coordination with production and quality teams.
- Supported PCN/ECN implementation and production ramp-up for Xiaomi, OPPO, Vivo projects.
- Led and mentored a team of 5 engineers.

## Engineering Checksheets & Documentation (IATF 16949:2016)

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- Machine History Card (F-005)
- Preventive Maintenance Plan (D/QEP-87/F-002)

- Predictive Maintenance Record (F-009)
- Breakdown Register (F-004)
- MTTR and MTBF Tracking Sheet (F-007)
- CAPA and Action Plan Record (F-008)
- Machine Modification Confirmation Record
- Spare Parts Indent and Critical Spare Tracking
- Idle Equipment and Tool Status Identification Cards
- Engineering Record Matrix and Audit Compliance Records

## Additional Professional Experience

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**Sensetek India Pvt. Ltd.**, Manesar, Haryana

*Machine Repair Engineer*

**Nov 2022 – Jul 2023**

- Advanced machinery maintenance and troubleshooting in mobile camera manufacturing for Chinese MNC operations.
- Machine setup, calibration, preventive maintenance, and production line support.

**TXD (India) Technology Pvt. Ltd.**, Bawal, Haryana

*Graduate Engineer Trainee (GET)*

**Jan 2020 – Oct 2022**

- Structured training in mobile display manufacturing operations.
- Hands-on experience with BL and TFOG mobile display assembly machines.
- Hardware repair and understanding of pick, inspect, paste, and OK/NG conveyor routing logic.

**Adani Power**, Pokhran, Rajasthan

*Supervisor – 33/132 kV Substation*

**Aug 2019 – Jan 2020**

- Supervised high-voltage substation operations ensuring electrical safety and power reliability.

## Education

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**Bachelor of Technology (B.Tech) – Electrical Engineering**

Rajasthan Technical University, Kota

**2015 – 2019**

## Languages

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Hindi (Native) • English (Professional Proficiency)