

# Gurpreet Singh

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**Professional Summary** – Experienced Production Engineer in automotive manufacturing, specializing in paint shop processes. Proven success in enhancing efficiency, quality, and compliance through effective equipment maintenance, quality control, and team leadership. Expertise in managing end-to-end paint operations, color matching, and environmental regulations. Collaborative and detail-oriented, dedicated to continuous improvement. Seeking to apply skills and drive operational excellence in a new role.

## EXPERIENCE

### Motherson Automotive Technologies and Engineering

Ahmedabad, India

Production Engineer

June 2021 – August 2023

- Collaborated with design teams to achieve accurate color matching and consistent finishes across various parts and products.
- Improved paint application processes by making data-driven adjustments to paint mixtures, spray techniques, and curing times, resulting in enhanced efficiency and product quality.
- Implemented robust quality control measures, including regular inspections and tests, to ensure painted surfaces met desired finish, color, and adhesion standards.
- Diagnosed and resolved issues during the paint application process, such as paint defects, uneven coverage, and curing problems, ensuring smooth operations.
- Applied lean manufacturing principles to continuously enhance paint shop processes, reduce waste, and optimize resource utilization.
- Provided leadership to a team of painters and technicians, offering guidance, training, and performance evaluations to maintain a skilled and motivated workforce.
- Assisted in the successful introduction of new products into the paint shop, meticulously setting up and optimizing paint processes for new designs.
- Generating BOM on basis of consumption for new parts, Edit BOM on basis of current consumption.
- Development of New Part for Production, Carrying Out Trials on basis of Previous Trials for Shade Matching (for 4C1B, 3C1B, mono coat), Achieving required DFT, Improvising on basis of Customer's Feedback, Cost Calculation for New Part for Project Approval, Work Instruction Generation, PPAP.
- Maximizing Production Output, Fulfilling Daily Requirement to Feed Customer Line, eliminating defects, Resolving Customer Complaints, 7 QC Tools.
- Optimizing Inventory for Smooth Production Activities, carrying out Monthly Inventory for Checking BOM v/s Actual Consumption and Cost Calculation, Stock Adjusting for New Month on Basis of Previous Inventory.
- Using of Empro ERP System for Work Order Generation, Production Entry, Inventory Management, Stock Adjustment.
- Carrying Out TPM Activities to Maximize Production Output, worked on JH Pillar, SHE Pillar, Education and Training Pillar.
- Carrying out Operator 10 Cycle to get Plan v/s Actual Cycle Time of Activity, Providing Related Training, Grading Operators based on their skill, Skill Matrix Generation.

## EDUCATION

### Pranveer Singh Institute of Technology

Kanpur, India

Bachelors of Technology in Mechanical Engineering

July 2017 – August 2021

Grade – 68.5 %

### Sir Padampat Singhania Education Centre

Kanpur, India

Intermediate

May 2015 – May 2016

Grade – 53.8 %

### Sir Padampat Singhania Education Centre

Kanpur, India

## **INTERNSHIPS**

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**Hindustan Aeronautics Ltd.**  
**Inter in mechanical domain for IC engine .**

**Kanpur, India**  
June 2020-July2020

## **PROJECTS**

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### **Forcemech Wheelchair**

Forcemech Wheelchair is being designed for those who are unable to propel manual wheelchair or who may need to use a manual wheelchair for distance or over a terrain which could be fatiguing a manual wheelchair.

## **PROFESSIONAL PROFICIENCY**

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|-----------------------------------|--|
| ● Paint process management        | ● Troubleshooting and issue resolution |
| ● Quality control and assurance   | ● Documentation and reporting          |
| ● Environmental compliance        | ● Continuous improvement strategies    |
| ● Material inventory management   | ● Safety protocols implementation      |
| ● Color matching expertise        | ● Cross-functional collaboration       |
| ● Team leadership and supervision | ● New product introduction support     |

## **POSITIONS OF RESPONSIBILITY**

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- Treasurer at Design and Engineering club, PSIT, Kanpur.
- Treasurer at Rotary club of Kanpur West.