

# Manikandan S

Mechanical Engineer

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## Career Objective

To leverage my skills and experience as a Mechanical Engineer in a challenging work environment. I am eager to contribute to the success of the organization through hard work, creativity, and a continuous drive to improve. I aim to develop both technical and managerial expertise while supporting the organization's objectives.

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## Professional Experience

### **Atlas Copco India Pvt. Ltd. (Hyundai Motor India)**

*Assembly Tool Room Service Engineer*

*August 14, 2024 – Present*

- Responsible for maintenance and service of assembly tools used in the automotive industry.
- Ensuring optimal performance of machinery and tools used in vehicle production.

### **ZF Hero Chassis Systems, Oragadam**

*Assembly Technician (BMW Car Axel Assembly)*

*June 1, 2022 – July 10, 2024*

- Assembled critical components for BMW vehicle axels.
- Managed quality control processes to meet industry standards and ensure defect-free production.

### **Honon Automotive Systems India Pvt. Ltd., Maraimalainagar**

*Quality Control - Plastic Molding Parts*

*February 11, 2020 – July 30, 2021*

- Performed quality inspections on plastic molding parts used in automotive manufacturing.
  - Implemented 5S and TPM activities to maintain optimal production quality.
  - Conducted internal audits to ensure compliance with ISO standards.
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## Education IMAYAM College of Engineering, Trichy

Bachelor of Engineering (B.E.) in Mechanical Engineering, 2019

- University: Anna University
  - Percentage: 63.3%
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## Skills & Proficiencies

- **Measuring Instruments:** Proficient in using various measurement tools and instruments for quality checks.
- **FMEA:** Strong knowledge of Failure Mode and Effect Analysis (FMEA) for quality improvement.
- **PFD (Process Flow Diagram):** Basic understanding of process mapping and flowcharting for quality and operational improvements.
- **Quality Management:** Hands-on experience in monitoring 5S, TPM activities, and ensuring quality standards are met.
- **Calibration for assembly tools :** doing calibration on assembly tools as per plan and submit documents to customers
- **Material availability control :** making timely booking QCM & AMC material and tracking ensure quality standards and delivery timelines.
- Managed the preparation of purchase orders and purchase requisitions. Monitored inventory levels and assisted in replenishment planning to avoid shortages.

## Workshops & Training - Basic Engine Making Techniques

Gained technical knowledge and hands-on experience in engine building and assembly techniques.

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## Academic Projects

### Mini Project: *Lifting Jack using Bevel Gear Mechanism*

- Designed a mechanical lifting jack using bevel gear, suitable for automotive and industrial use to lift lightweight equipment.

### Main Project: *Heat Transfer Augmentation using Twisted Tapes in Heat Exchanger*

- Investigated methods to enhance heat transfer efficiency by using twisted tapes in heat exchangers. This project can be applied in industries involving steam transfer (e.g., boiler pipelines)
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### Seminars & Paper Presentations

- **Paper Presentation:** *Investigation of Burr Size and Surface Roughness in Drilling of AISI316L Steel Using Response Surface Methodology* Presented at NCAMMCE-18.
- **Paper Presentation:** *Solar Washing Machine* Presented at NCESTM 2K18.
- **Seminar:** *Recent Materials & Applications*  
National level seminar on advancements in materials engineering.
- **Seminar:** *Challenges and Opportunities in Automotive Engineering* National level seminar on future trends in the automotive sector.

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### Areas of Interest

- Customer management
- Quality assurance
- Assembly Processes

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### Declaration

I hereby declare that the information provided is true to the best of my knowledge and belief. I am responsible for any discrepancies found in the above information.

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**PLACE:**

**DATE:**

**SIGN**



**( S.MANIKANDAN )**