

# Bharani Kumar

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## Profile

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Mechanical Engineer graduate with exposure to manufacturing processes, shop-floor operations, quality awareness, and engineering documentation through academic projects, internship, and in-plant training. Familiar with production flow, safety practices, basic quality checks, BOM understanding, and shift-based reporting. Motivated to learn production systems, follow SOPs, and contribute to continuous improvement in a structured manufacturing environment.

## Technical Skills

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**Production & Operations:** Production flow understanding, basic shop-floor coordination, yield and rejection awareness, downtime reporting (conceptual), safety awareness and SOP compliance

**Quality & Process:** Basic quality inspection concepts, NCR awareness (basic), documentation control, continuous improvement mindset

**Reporting & Software:** MS Excel, MS Word, PowerPoint, SAP (basics)

**Engineering & Tools:** Engineering drawing interpretation, BOM understanding, manufacturing fundamentals, Fusion 360

## Education

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Saveetha Engineering College, B.E. Mechanical Engineering	2021 – 2025
• CGPA: 8.72/10	
St. Ann's M.H.S School, HSC	2020 – 2021
• Percentage: 87%	
St. Ann's M.H.S School, SSLC	2018 – 2019
• Percentage: 82.6%	

## Projects

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Design and Analysis of Water Body Cleaning Vehicle	2025
• Modeled a small-scale cleanup vehicle prototype using Fusion 360.	
• Focused on 3D design of floating structure and waste collection.	
• Applied basic load and motion analysis; presented results as final year submission.	
• Considered basic manufacturability and assembly aspects during the design stage.	
EV Integration in a Maruti 800	2024
• Contributed to planning electric motor integration in a Maruti 800.	
• Studied alignment, motor mount, and feasibility for EV conversion.	
• Worked in a team on retrofit documentation and presentation.	
CPU Fan and Case Design & 3D Print	2022
• Completed basic CPU fan/case design using Fusion 360.	

- 3D printed the model with PLA.
- Gained practical 3D modeling and 3D printing experience.

## Internship

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**Abirami Engineering, Strainers & Industrial Suppliers** 2024

- Observed manufacturing flow and shop-floor operations in an engineering production environment.
- Gained exposure to quality checks, documentation, and basic production records.
- Understood coordination between production, quality, and maintenance teams.

## In-Plant Training

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**Metropolitan Transport Corporation (MTC), Chennai** 2023

- Visited MTC refurbishing unit, Pattulos Road.
- Observed overhaul of engines, brakes, starter motors, and differentials.
- Understood key public transport vehicle maintenance processes.
- Gained basic understanding of safety practices, preventive maintenance importance, and breakdown handling.

## Certifications & Courses

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- JLPT N5 – Japanese 2024
- NPTEL Principles of Industrial Engineering 2023
- Fusion 360 Design Contest, College Level 2023
- Presented paper on Remote-Controlled Water Cleanup Vehicle, ICAAMME (SRM Ramapuram), Sustainability & Automation category. 2025
- Diploma in AutoCAD and CATIA. 2025

## Languages

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**Tamil:** Native

**English:** Fluent

**Japanese:** Basic (JLPT N5)