

# Bharani Kumar

Mugalivakkam, Chennai | bharanikumarr18@gmail.com | +91 8428339409 | bharanikumar.netlify.app  
github.com/Bharanikumarr18 | linkedin.com/in/BharanikumarArunagiri

## Profile

---

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

---

**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

---

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

## Projects

---

|                                                                                       |      |
|---------------------------------------------------------------------------------------|------|
| <b>Design and Analysis of Water Body Cleaning Vehicle</b>                             | 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.    |      |
| <b>EV Integration in a Maruti 800</b>                                                 | 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.                        |      |
| <b>CPU Fan and Case Design &amp; 3D Print</b>                                         | 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

---

**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

---

**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

---

|                                                                                                                              |      |
|------------------------------------------------------------------------------------------------------------------------------|------|
| • 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

---

**Tamil:** Native

**English:** Fluent

**Japanese:** Basic (JLPT N5)