BHARANI KUMAR ARUNAGIRI

Mechanical Engineering Graduate

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Portfolio: bharanikumar.netlify.app

PROFILE STATEMENT

Self-motivated and detail-focused Mechanical Engineering student with hands-on experience in basic CAD modeling and 3D design using Fusion 360. Gained practical exposure through college projects and in-plant visits. Eager to apply and expand my technical and teamwork skills in a growth-oriented company. Known for being a diligent learner, honest communicator, and someone willing to improve step by step.

EDUCATION

Saveetha Engineering College – B.E. Mechanical Engineering (2021–25) CGPA: 8.5

ST. ANN'S M.H.S School – HSC (2020–21) – 87%

ST. ANN'S M.H.S School – SSLC (2018–19) – 82.6%

PROJECTS

Design and analysis of water body cleaning vehicle (2025)

- Modeled a small-scale cleanup vehicle based on a prototype using Fusion 360.
- Focused on 3D design of floating structure and waste collection chamber.
- Applied basic load and motion analysis to simulate operating conditions.
- Presented the CAD model and analysis results as part of final year submission.

EV Integration in a Conventional Maruti 800 (2024)

- Contributed to the design and planning of electric motor integration in a repurposed Maruti 800 chassis.
- Studied basic alignment, motor mount location, and space layout for electric drive conversion.
- Focused on feasibility of converting conventional frame to basic EV support system.
- Worked as part of a small team to document and present the retrofit proposal.

CPU Fan and Case Design and Fabrication using Fusion 360 and 3D Printing (2022)

- Followed online tutorials to design a basic CPU cooling fan and case using Fusion 360.
- Practiced step-by-step modeling of the fan structure, blade shape, and outer cover.
- Printed the final model using PLA material with 3D printing.
- Gained confidence in using Fusion 360 and understanding how 3D printing works in real life.

INTERNSHIP

Abirami Engineering (2024)

- Completed a formal internship period at Abirami Engineering – Strainers and Industrial Suppliers.
- Gained a brief overview of the company’s product lines and manufacturing activities.

IN-PLANT TRAINING

Metropolitan Transport Corporation (2023)

- Visited the central refurbishing unit of MTC located at Pattulos Road, Chennai.
- Observed servicing and overhaul of critical components such as engines, brakes, starter motors, and differentials.
- Gained basic understanding of how public transport vehicles are maintained and restored for city operations.

CERTIFICATIONS & PERSONAL PROJECTS

- JLPT N5 (2024)
- NPTEL: Principles of Industrial Engineering (2023)
- Fusion 360 Design Contest – College level (2023)
- Portfolio built with AI tools from scratch: bharanikumar.netlify.app (2025)

PRESENTATIONS & SEMINARS (2025)

- Presented a paper based on the Remote-Controlled Water Cleanup Vehicle project at the International Conference on Advances in Automobile and Mechanical Engineering (ICAAMME 2025), SRM Ramapuram.
- Participated in the online session under the sustainability and automation category.

TECHNICAL SKILLS

AutoCAD, CATIA, Fusion 360, GD&T, 5S, Kaizen, MS Office, 3D Printing, Technical Report Writing

DIGITAL SKILLS

- Comfortable using AI tools like ChatGPT, Copilot, Perplexity etc to streamline tasks, plan projects, and improve content writing.
- Use AI for job applications, report generation, and learning technical concepts faster.

SOFT SKILLS

Teamwork, Time Management, Resilience, Adaptability, Communication

LANGUAGES

- Tamil – Native
- English – Fluent
- Japanese – JLPT N5 – Basic

PORTFOLIO

Visit: bharanikumar.netlify.app