MANIKANDAN NEELAMEGAM

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Professional Summary

Versatile Mechanical Engineering undergraduate with hands-on experience in mechanical design, product analysis, and CAD tools. Demonstrates technical expertise and strong communication skills through industry projects, presentations on emerging technologies (IoT, EVs, MCT). A cultural performer and avid traveler seeking opportunities to apply innovative engineering solutions in a dynamic organization.

Educational Qualifications

- **Bachelor of Mechanical Engineering | (2022 - 2026)**

  C.K. College of Engineering and Technology, Cuddalore
  CGPA: 8.69/10 (still 6th Sem)
- **Senior Secondary Education | (2020 - 2022)**

  Bharathi Matriculation Higher Secondary School, Bhuvanagiri
  Percentage: 92%
- **Secondary Education | (2019 - 2020)**

  Bharathi Matriculation Higher Secondary School, Bhuvanagiri

  Percentage: 94%

Work Experience:

Graduate Engineering Trainee | Emerson Pvt. Ltd. (Fisher Center) | Chennai. (DEC 2025 - Present).

- Currently working as APPLICATION ENGINEER in Emerson in the BU of Flow Control Valve belongs to Europe Region with 5.5 LPA.

Academic Projects

- **Real Time Machine Health Monitoring System** (2026) – Bulit a prototype model for detecting the Vibration, Temperature, Voltage for CNC machines through sensors and IoT.
- **Real Time Human Detector using IoT** (2025) – Built a robot model using temperature sensors to detect humans during landslides with 1m depth detection capability.
- **Designed an Industry 4.0 Automation Setup** (2025) to the estimated industry KISSAN AGRO PVT.LTD. Chhattisgarh, India. To convert their industrial setup into automation system. I got this opportunity through my LinkedIn 3D design models.
- **Smart Helmet with Air Circulation** (2023) – Designed an innovative helmet with integrated air circulation for improved rider comfort and safety.

- **Obstacle Detector using IR sensors and IoT** (2025) to send real-time alerts. Completed under the Naan Mudhalvan program, focusing on safety and automation.

Internship Experience

- Mechanical Engineering Intern | Sakthi Auto Components Pvt. Ltd., Tirupur (Feb 2025)
- Mechanical Engineering Intern | Rane Madras Pvt. Ltd., Puducherry (Aug 2024 – Sep 2024)

Technical Skills

- SolidWorks 2025   - Part, Sheet, Surface Modeling, Detailing
- Creo 11.0   - Part, Sheet, Surface Modeling, Detailing
- AutoCAD 2024   - 2D&3D Drafting
- Ansys 2021   - Thermal, Load analysis
- MS Office   - Word, Excel
- Product Design   - Part Design

Technical Certifications

- **SolidWorks Certification** – Vector Solutions Pvt. Ltd., Puducherry (2025).
- **Creo / ProE Certification** – Vector Solutions Pvt. Ltd., Puducherry (2025).
- **Auto CAD Certification** – Vector Solutions Pvt. Ltd., Puducherry (2024).
- **Naan Mudhalvan**: Water Detection System using IoT (E-Certificate) (2025).

Non - Technical Certifications

- **Junior Level Typewriting** Certification in English from DOTE (2019).

Achievements

- Achieved over **20 individual prizes**, **2 overall technical trophies**, and earned **40+ certificates** in both technical and non-technical intercollegiate events across **10 institutions**, showcasing excellence in innovation and teamwork. Gaining diverse technical exposure and strong interpersonal skills through active participation and continuous learning.
- Designed **3D** models of a **JCB excavator**, Jet Engine and Railroad car using Creo Parametric.
- Certificate of Excellence – Secured First Rank in Semester Examinations - 2023 | CKCET.

Leadership Experience

- **Event Coordinator** – CKCET: Lead college events and student initiatives.
- **School People Leader** (2018 – 2022): Maintained discipline, resolved conflicts, and represented peers.