

Cyril Praveenraj J

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INTRODUCTION

Innovative and driven Mechanical Engineer with 1 year of experience specializing in the design, development and integration of Powertrain systems for Electric Mobility. Natural leader passionate about shaping a greener future through sustainable solutions and continuous learning.

EDUCATION

Sathyabama Institute of Science And Technology

Bachelors In Mechanical Engineering

Chennai, India

June. 2018 – May 2022

- First class with distinction with a CGPA of **8.73/10**.

Velammal Matriculation Higher Secondary School

12th grade - 77.23 percentage.

Chennai, India

May 2018

EXPERIENCE

Research and Development - GET

Aug.2022 – Present

TI Clean Mobility Private Ltd.

Chennai, India

- Design, development and integration of Power-train for **Light** and **Heavy commercial vehicles**.
- Demonstrated expertise in gear calculation for Single stage and multistage transmission systems.
- Possessed comprehensive knowledge of **electric motors**, **E-axles**, **oil seals**, and **propeller shafts**.
- Conducted modelling and analysis of electric vehicles using **AVL Cruiser** and **Excel**.
- Applied **CAE** (Computer-Aided Engineering) for design-level calculations, assessing axle performance, and analyzing stresses acting on gears.

Intern

Nov.2021 – Apr.2022

Faurecia (Automotive interior manufacturers)

Chennai, India

- First-hand exposure to **Lean and Six Sigma** methodology application at Faurecia.
- Exposure to the technicality of intricate machining processes used in manufacturing interiors of automobiles (Hyundai, Ford, Isuzu, Kia).
- Understanding of global standards, as well as production planning and control in the industry door panels.

Intern

Feb.2019 – March 2019

Sundaram Fasteners (A group of TVS)

Chennai, India

- Understanding of various forming processes such as forging, cold rolling, roll threading, and stamping.
- Design and development of special purpose machines for quality inspection.

PUBLICATION AND PATENTS

Mobile phone case with collapsible air cushion | *Patent no: 325332-001.*

Jan.2020

Mobile phone case with collapsible corner air cushion | *Patent no: 325332-002.*

Jan.2020

Investigation of Bio-Diesel in Uncoated Piston Head Vs Bio-Diesel in Coated Head.

Jan.2023

IOP Conference Series: Earth and Environmental Science | DOI 10.1088/1755-1315/1100/1/012014

ACHIEVEMENT AND ACTIVITIES

EXCON 2022 - National level symposium on alternative fuels (Aatmanirbhar Bharat)

Jan.2023

- Recognised the **2nd** best research paper entitled "**Economic bio-diesel with hydrogen enrichment in CI engine**" among the entrees.
- This conference's jury included directors from Caterpillar, Volvo India, CII, TATA and Hitachi Construction.

Best Performer Award - TI Clean Mobility

Nov.2022

- A prerequisite training which involved management skills and development of core engineering knowledge on electric vehicles.

Elite Techno Group

Feb.2019

- Design and development of electrical dune buggy.

TECHNICAL SKILLS

Area of expertise: Design level calculation for e-Powertrain (Automobile), FMEA, concept modelling, product design, surface modelling, part modelling, FEA, integrating Electrical and Mechanical systems.

Technical Software: Catia V5, Solidworks, Alias (surface modeling), 3D printing, ANSYS (Structural), AVL cruise, MATLAB.

Productivity Software: MS Excel, MS PowerPoint, Canva (Graphical design), ChatGPT.

Softskills: Leadership, Negotiation and Conflict Resolution, Brainstorming, Time management, Creativity.

Languages: German(A1), French, English(B2 CERF level), French.

Courses: Diploma in Electric vehicle and Automotive modelling.

POSITION AND RESPONSIBILITY

- **Secretary of Encore club** at Sathyabama Institute Of Science and Technology.
- Organized 3 webinars which were led by Industry professionals for the career development of students.
- Accomplished vendor communication and successful procurement of motors, oil seals and gearboxes for seamless integration into trucks.