

# Cyril Praveenraj J

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## INTRODUCTION

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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

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### Sathyabama Institute of Science And Technology

*Bachelors In Mechanical Engineering*

Chennai, India

*June. 2018 – May 2022*

- First class with distinction with a CGPA of **8.64/10**.

### Velammal Matriculation Higher Secondary School

*12th grade - 77.23 percentage.*

Chennai, India

*May 2018*

## EXPERIENCE

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### Research and Development - GET

Aug.2022 – Present

*TI Clean Mobility Private Ltd.*

*Chennai, India*

- Design, development and integration of e-Powertrain for **Light** and **Heavy commercial vehicles**.
- Demonstrated expertise in gear calculation for single stage and multistage transmission systems.
- Possess 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 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

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**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

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### 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

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**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

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- **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.