

Cyril Praveenraj J

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INTRODUCTION

Self-directed and driven Mechanical Engineer professional, demonstrated work experience in Research and Development for over a year. Currently engaged in e-Axle, design and development, vehicle level design calculations for e-Mobility.

EDUCATION

Sathyabama Institute of Science And Technology

Chennai, India

Bachelors In Mechanical Engineering

June. 2018 – May 2022

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

Velammal Matriculation Higher Secondary School

Chennai, India

12th grade - 77.23 percentage.

May 2018

EXPERIENCE

Research And Development Engineer

Aug.2022 – Present

TI Clean Mobility Private Ltd.

Chennai, India

- Design And Development Of E - Axle for SCV, L5N, L5M.
- Good understanding on gear calculation for single stage and 2 - stage transmission systems.
- Comprehensive knowledge of Motor Control Unit.
- Modelling of Electric Vehicle (Calculation of Power rating and torque requirements).

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 process such as forging, cold rolling, roll threading, 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, and Tata Hitachi Construction.

Best Performer Award

Nov.2022

- A pre requisite training which involved management skills and development of core engineering knowledge on electric vehicle

Elite Techno Group

Feb.2019

- Design and development of electrical dune buggy.

TECHNICAL SKILLS

Area of expertise: Design Level Calculation, FMEA, Concept modelling, Product Design, Surface modelling, FEA.

Software's: Catia V5, Solidworks, Alias (surface modeling), 3D printing, ANSYS (Structural).

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

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 was lead by Industry professionals for the career development of students.