Mr.GOKUL P

Electric-Motor Design Engineer

Contact

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Tambaram sanatorium, Tambaram(tk),
Chennai, Tamilnadu pincode-600045

Education

Bachelor of Engineering (B.E)

Electrical and Electronics Engineering 2018 - 2022

82%

KSR Institute of Engineering and Technology
- Affiliated to Anna university

Higher Secondary Course (HSC)

Biology with Mathematics Group 2017 - 2018

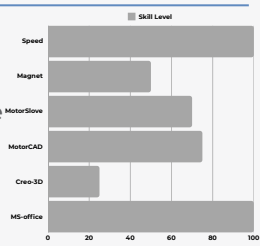
71%

Secondary School Leaving Course (SSLC)

88% 2015 - 2016

Software Skills

- Simcenter Speed -
- Simcenter Magnet
- Simcenter Motorslove
- Ansys MotorCAD
- Creo-3D
- Microsoft office



Technical Skills

- **Motor Design & Testing:** Experienced in designing PMDC motors and testing BLDC motors.
- **Electrical Instruments:** Proficient in using power analyzers, load Magtrol, watt meters, and oscilloscopes for motor performance testing.
- **Motor Simulation:** Beginner in BLDC motor design and simulation.
- **3D Modeling:** Currently learning 3D CAD modeling for motor design.

Summary

Experienced Electrical Motor Design Engineer with a strong background in designing, simulating, and validating PMDC motors. Over 2.5 years of expertise in optimizing motor performance, conducting technical analyses, and solving complex engineering challenges. Skilled in leveraging advanced software tools and technical knowledge to deliver innovative and efficient solutions, eager to contribute to a forward-thinking organization.

Experience

Igarashi Motor India Limited

July-2022 - Present

Plots B-12 to B-15, Phase-II, MEPZ-SEZ, Tambaram, Chennai - 600045

Roles And Responsibilities

Motor Design and Simulation:
- Designed and improved parts of motors like laminations, magnets, brushes, and windings to achieve required performance.
- Used software tools like Simcenter SPEED & MAGNET to simulate motor behavior and check efficiency, torque, and heat performance. Reduced energy losses and improved motor reliability by testing and refining designs.
- Worked with teams to turn designs into working motor prototypes.

Testing and Validation: Conducted electrical performance measurements and validated motor efficiency, torque, speed, and thermal behavior.

PMDC Motor Development: Led design, development, reverse engineering, and benchmarking of PMDC motors, including sample creation through hand-winding.

Reverse Engineering: Analyzed competitors motors and documented findings to improve existing designs.

Prototyping: Developed motor prototypes and supported manufacturing and quality assurance teams.

BLDC & PMSM Motors: Assisted in initial design and validation activities while learning advanced techniques..

Customer Requirements Analysis: Interpreted customer needs, provided technical clarifications, and ensured alignment with application demands.

Documentation: Created design reports, performance documentation, and presentations for internal and customer use.

Projects

- **DC Motor for Engine Air Management Actuators:** Designed and developed a motor for applications like electric throttle control systems. The motor met all customer performance requirements and successfully passed validation testing.

- **DC Motor for Braking Systems:** Currently working on the design and simulation of motors for electric parking brake (EPB) and park lock actuators (PLA). The project is still in the prototype phase.

- **DC Motor for Comfort Actuators:** Developed motors for various comfort features inside the car, including seat folding, headrest adjustments, and height adjusters.

Professional details

- **Current industry** : Automotive industry
- **Current department** : Research & Development
- **Reporting** : Business Leader

Personal details

- **Permanent address** : Sankari(tk), Salem(dt), Tamilnadu pincode-637301
- **Date Of Birth (DOB)** : 22-06-2000
- **Religion** : Hindu
- **Nationality** : Indian
- **Martial status** : Unmarried/Single
- **Languages known** :Tamil, English