SAMPATHPAVAN NEELAMSETTI

Engineer trainee

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Sampath setti

137, Voosavanipeta, Srikakulam, Andhra Pradesh 532001

EDUCATION

BTech/B.E - EEE

GMR institute of technology

- **Year of passing - 2021**
- **Grade - 6 cgpa**

XII - MPC

Sri Chaithanya jnr clg

- **Year of passing - 2017**
- **Grade - 90.7**

SKILLS

- Model based design
- Electric vehicle powertrain simulation
- Power electronics
- Control system design
- Electric motors and drives
- Algorithm development
- Code generation
- MATLAB,SIMULINK
- Microsoft Excel

SOFT SKILLS

- Leadership
- Teamwork
- Decision-making
- Communication

LANGUAGES

- ENGLISH
- TELUGU

ABOUT ME

A dedicated individual with a strong interest in electric vehicle design, eager to secure a trainee role in the automotive sector. Armed with a solid educational foundation, pertinent skills, and a strong commitment to work. Proficient in model-based development, power electronics, and modeling and simulation. Committed to delivering outstanding outcomes and enhancing organizational achievement.

WORK EXPERIENCE

QA engineer

09/2022 - 03/2023

Accord power conversion Pvt ltd I HYDERABAD

- Skilled in designing and validating electric chargers specifically for two-wheelers, along with the ability to create detailed test reports.
- The role is to engage with customers, listen to their concerns, provide solutions to their problems, and suggest products and services based on their individual needs.
- The task is to analyze customer problems, identify the root cause, and implement corrective action.
- Conducted quality and safety checks, ensuring that products met standards and regulations, and assisted in the delivery of high-quality products to customers.

PROJECTS

Soc and Soh estimation of lithium ion battery

- Developed a Kalman filter-based algorithm for accurate estimation of SOC (State of Charge) and SOH (State of Health) in lithium-ion batteries.
- Implemented the algorithm to continuously monitor and assess the battery's charge status and overall health.
- Discovering the Hidden Potential of Lithium-Ion Batteries with a Kalman Filter Algorithm
- Innovation in battery system methodology increased battery performance by 25% through precise state of charge and health estimation.

Efficiency Enhancement of permanent magnet brushless dc moto for motor pump application

- Project focuses on optimizing a permanent magnet brushless DC motor for water pump applications.
- Achieved a 20% increase in energy efficiency and reduced maintenance costs by 15% for a water pump's DC motor.
- Utilized Altium and MATLAB tools to analyze, design, and optimize the motor.
- Focused on enhancing energy efficiency to make the motor more effective and eco-friendly.
- Contributed to the development of sustainable energy solutions in the water pump industry.

COURSE & CERTIFICATES

Model Based Development For Automotive — 10/2023
Udemy

Electric vehicle simulation engineer — 12/2021 - 03/2022
Cloudkampus