

ALEKH KUMAR VERMA

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SUMMARY

I am a third-year B.Tech student pursuing Electrical Engineering with a specialization in Electric Vehicles. I have a solid grasp of Power Electronics and Electrical Machines, and I am skilled in using Simulink (MATLAB). My hands-on experience includes working with 3-phase power supply systems and performing transformer experiments. I am eager to apply my knowledge and contribute to cutting-edge projects in the field of electrical engineering.

WORK EXPERIENCE

GYANARPAN VOLUNTEERING

Apr 2023 - June 2023

- Created comprehensive study materials, including modules, question papers with answers, and summaries, to simplify complex topics for underprivileged students.
- Helped students improve their understanding and excel in examinations by providing easily digestible and accessible learning resources.

PROJECT

DC-DC Converter for LED Lighting of E-Vehicles

August 2024 - Present

- Acquired in-depth knowledge of different types of DC-DC converters used in LED lighting systems for electric vehicles.
- Gained insights into the operation of the LC3L resonant DC-DC converter as an automotive LED driver.
- Explored the closed-loop control of the LCL-T resonant DC-DC converter and its application in enhancing the efficiency of automotive LED driver systems.

EDUCATION

RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY

2022-2026

(*INSTITUTE OF NATIONAL IMPORTANCE*)

Bachelor of Technology - Electrical Engineering (Major in Electric-Vehicle)

● St. Francis College

2021

Intermediate: 84%

● St. Francis College

2019

Matriculation: 80%

SKILLS

Languages: Python, C, Java, Matlab

Software: Simulink, AutoCAD