

GOKUL K G

Motor Control | Hardware–Software Engineer

Bengaluru, India

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Professional Summary

Motor Control and Hardware–Software Engineer with 3+ years of experience in EV motor controller development, power electronics, automation, and testing. Strong background in inverter hardware design, PCB design, board bring-up, and validation, combined with solid C/C++ and Python expertise. Experienced in CAN, Modbus, automated MTPA tuning, motor efficiency mapping, and vehicle-level integration.

Technical Skills

- Programming: C, C++, Python
- GUI & Automation: Qt, PyQt, Test Automation, Data Logging
- Communication: CAN, Modbus
- Hardware: Motor Controllers, Inverters, Power Electronics, PCB Design, EMI/EMC
- Tools: KiCad, LTspice, PSIM, Ansys SIwave, MATLAB, Git, VS Code, Qt Creator, Ts Master

Experience – Nhanz Systems Pvt Ltd

Hardware Design Engineer

- Designed and validated LV motor controllers (16.8 kW, 9.8 kW).
- Performed PCB design, board bring-up, debugging, and thermal & EMC optimization.
- Developed automated endurance test setups using Python and PyQt.
- Built vehicle-level tuning software with PyQt and CAN communication.
- Developed tools for automated MTPA tuning and motor efficiency mapping.
- Integrated thermal measurement via Modbus and PicoScope-based signal acquisition.

Education

B.Tech – Electronics and Communication Engineering

Govt Engineering College Thrissur

APJ Abdul Kalam Technological University

CGPA: 7.39