Divya Narayanan

Electronics Engineer

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PERSONAL STATEMENT

Electronics engineer with 4 years of experience in hardware design and validation of power and control boards for EV chargers and industrial drives. Comfortable with schematic and PCB design in Altium, embedded C on STM32, and EMI/EMC pre-compliance testing, with hands-on support for SMT production lines.

WORK EXPERIENCE

Hardware Design Engineer · Kaveri Electronic Systems Pvt Ltd, Hosur — Aug 2022 – Present

- Designed schematics and 4-layer PCBs for a 7.4 kW AC EV charger control board now produced at 3,000 units a month.
- Cleared conducted-emission tests on the first lab attempt by revising filter design and layout grounding.
- Brought field failure rate down from 1.8% to 0.4% by root-causing a relay driver issue and changing the component rating.
- Wrote embedded C drivers for ADC, UART and CAN on STM32 and supported firmware testing.

Electronics Engineer, Testing · Trinetra Automation Pvt Ltd, Bengaluru — Sep 2020 – Jul 2022

- Developed functional test jigs for 5 drive control boards, cutting test time per board from 9 to 4 minutes.
- Analysed SMT line defects with the production team and reduced first-pass failures by 30%.
- Maintained test reports and BOM changes in the PLM system for every engineering change.

EDUCATION

B.E. in Electronics and Communication Engineering · Government College of Technology, Coimbatore, Coimbatore — 2016 – 2020
Grade: 8.3 CGPA

SKILLS

Altium Designer · Schematic design · PCB layout · Embedded C · STM32 · CAN and UART · Oscilloscope and DSO · EMI/EMC testing

CORE SKILLS

- Hardware design
- Board bring-up
- Failure analysis
- Design for manufacturing
- Documentation

CERTIFICATIONS

NPTEL: Embedded System Design with ARM · NPTEL — Apr 2021

LANGUAGES

English · Professional · Tamil · Native · Kannada · Conversational

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