

# NAVANEETHAKRISHNAN S

## PCB DESIGN ENGINEER | HARDWARE TEST ENGINEER

### SUMMARY

Over 6 years of experience as Hardware Testing and Development Engineer in designing, developing, and validating embedded systems. Experienced in PCB circuit designing, hardware testing, debugging, and performance optimization. Proficient in both analog and digital circuit design, with understanding standards and compliance requirements. Proven ability to work collaboratively with software and firmware engineers to integrate and verify hardware components.

### EXPERIENCE

Mar 2023 – Present	●	Hardware Testing Engineer Aimtron Electronics Pvt Ltd, Bangalore
Jul 2020 – Dec 2021	●	Hardware Testing Engineer INGLO, Coimbatore
Jul 2019 – Jul 2020	●	Hardware Testing Engineer Magnic Technologies Pvt Ltd, Coimbatore
Nov 2015 – Jun 2019	●	Product Testing Salzer Electronics Pvt Ltd, Coimbatore

### ROLES & RESPONSIBILITIES

- Executed comprehensive validation protocols on PCBA, identifying and resolving critical performance issues, which resulted increase in overall reliability and reduced warranty claims.
- Developed comprehensive test plans, designed test panels, and prepared test jigs.
- Collected and analyzed data from various tools and systems to ensure accurate results.
- Performed hardware debugging and troubleshooting, implementing effective problem-solving techniques.
- Managed and maintained laboratory equipment including multimeters, oscilloscopes, DC power sources, MSL chambers, and humidity controllers.
- Designed printed circuit boards using ALTIUM PCB Editor and EAGLE.
- Engineered double-layer PCB designs, ensuring full EMI and EMC compliance, enhancing overall product reliability and performance.
- Supported the development of specialized products with innovative design solutions and strategies.
- Collaborated with cross functional team to identify project goals, research methods, variables, and other test parameters.
- Ensured cleanliness of equipment and managed inventory and supplies efficiently.
- Devised new prototype or refined existing ones to optimize the manufacturing process.
- Conducted root cause analysis (RCA) and implemented Failure Mode and Effects Analysis (FMEA) processes.
- Served as a Reliability Testing Engineer, ensuring the durability and reliability of hardware components.
- Selected appropriate components and conducted component failure analysis to improve product performance.

### CONTACT

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### SKILLS

Altium  
Eagle  
KI-Cad  
SPI  
UART  
I2C  
MATLAB(Beginner)  
PROTEOUS(Beginner)

### EDUCATION

Coimbatore Institute of Technology,  
Coimbatore - 2020  
BE in Electrical and Electronics  
Engineering

### PROJECTS

AC-DC Convertors.  
MPPT  
Hybrid Charge controllers.  
ALL IN ONE Street Lights (up to 120W).  
Communication BLE  
E-Cycle Drive