

SUSHANT VIJAY SHINDE

PCB Design Engineer | IPC Certified | Altium & OrCAD Expert

📍 Pune, Maharashtra, India | 📞 +91-9657041026

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PROFESSIONAL SUMMARY

Detail-oriented and certified **PCB Design Engineer** with over **2.4 years of experience** in the **electronics manufacturing services (EMS)** domain, specializing in **multilayer PCB design, DFM/DFT principles**, and **SMT quality assurance**. Proven expertise in **Altium Designer (v17 & v25)** and **OrCAD** for high-reliability circuit layouts used in **EVs, IoT systems, and power supply modules**. Strong exposure to **IPC standards**, production documentation, and new product implementation. Adept at ensuring **design compliance**, improving **first-pass yield**, and enhancing **production efficiency** in fast-paced industrial setups.

CORE TECHNICAL SKILLS

- PCB Design (Multilayer, High-Speed, Mixed-Signal)
- Altium Designer | OrCAD
- Design for Manufacturing (DFM) & Design for Testing (DFT)
- SMT Process Quality | Schematic & Library Development
- Gerber, BOM, Pick & Place, ODB++, Drill Files
- Component Placement | Thermal Management | Signal Integrity
- IPC Standards: IPC-2221, IPC-2152, IPC-7351, IPC-610H
- AOI/ICT Validation | Root Cause Analysis | PPAP
- QA & Product Lifecycle Support | EQ Handling
- Digital Multimeter, CRO, LCR Meter, Smart Tweezer, Picoscope

PROFESSIONAL EXPERIENCE

PCB Layout Design Engineer

Clean Electric Pvt. Ltd., Pune


📅 Feb 2025 – Present

- Successfully delivered **12+ multilayer PCB designs** for **EV battery management systems, power converters, and smart IoT devices**, achieving **100% on-time project delivery**.
- Reduced PCB prototyping errors by **25%** through rigorous **DFM/DFT rule implementation** and cross-functional design validation.

- Generated comprehensive documentation including **Gerber files, ODB++, drill files, BOM, and fabrication drawings**, enabling seamless manufacturing with **zero revision recalls**.
- Collaborated with hardware, mechanical, and QA teams for **design reviews**, ensuring adherence to **IPC compliance** and **electrical safety regulations**.
- Resolved over **95% of vendor Engineering Queries (EQs)** during the first design iteration, leading to faster product release.
- Enhanced **signal integrity and thermal performance** by optimizing **routing and component placement** on complex mixed-signal circuits.

SMT Quality Inspector – Process QA

Behr Hella Thermocontrol India Pvt. Ltd., Pune

 Feb 2023 – Feb 2025

- Conducted end-to-end quality checks for **SMT lines**, contributing to a **20% reduction in product defects** by identifying process deviations early.
- Played a key role in the **Production Part Approval Process (PPAP)** and validation of **AOI and ICT machines**, ensuring consistent component quality.
- Led **5+ root cause analyses** for failed units and implemented corrective actions, leading to a **30% improvement in rework reduction**.
- Performed **assembly drawing and BOM validation** during new product builds to ensure **zero errors in first assembly runs**.
- Operated QA instruments including **Digital Multimeter, CRO, Smart Tweezer**, and executed **PCB assembly inspection** to meet IPC-A-610H standards.

EDUCATIONAL BACKGROUND

M.Sc. in Electronics

Shivaji University, Kolhapur – 2021




 **Grade:** 70%

B.Sc. in Electronics

Yashwantrao Chavan Institute of Science, Satara – 2019

 **Grade:** 68%

CERTIFICATIONS

-  **IPC-A-610H Certified Specialist (CIS)** – Valid until May 2025
 -  **Diploma in Industrial PCB Design**
 -  **PCB Designing with OrCAD** – LinkedIn Learning
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PROJECTS

Power Generation Using Piezoelectric Sensors

🕒 Duration: 61 Days

- Engineered a working model to harness electrical energy using **piezoelectric transducers**, focusing on real-world applications in **energy harvesting micro-systems**.
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LANGUAGES

- English (Professional Fluency)
 - Hindi (Professional Fluency)
 - Marathi (Native)
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INTERESTS

- Electronic Prototyping & Innovation
 - Swimming | Cricket
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WHY HIRE ME?

I bring a **rare combination of hands-on PCB design expertise and process quality assurance**, backed by **IPC certification**, a solid track record of **design success**, and a deep understanding of **Indian manufacturing workflows**. With my commitment to **precision, productivity, and process compliance**, I am prepared to contribute immediately to any forward-thinking electronics team. I think like an engineer, deliver like a project manager, and execute like a quality specialist — making me a **complete asset in India's competitive electronics ecosystem**.