

Sobhan Jahaniparast

Embedded Systems & Hardware Engineer

Worldwide (Remote / On-Site)

Email: contact@sobhan.tech

Website: www.engsobhan.tech

Professional Summary

I'm an embedded systems engineer with hands-on experience in designing complex multilayer PCBs, high-speed interfaces, and power distribution networks. I care deeply about signal integrity, EMI, manufacturability, and long-term reliability. My goal is not just to build hardware that works – but hardware that scales.

Areas of Expertise

- Embedded Hardware Engineering
- High-Speed PCB Design
- Signal Integrity & Power Integrity
- EMC/EMI-Aware Layout
- EMC/EMI-Aware² Layout
- Multilayer Board Design
- Manufacturability & Production-Ready Hardware

Technical Skills

- High-Speed Interfaces: DDR, QSPI, SDRAM
- Embedded Microcontrollers & PCB Design
- Schematic Capture & PCB Layout
- Power Distribution & Management
- Embedded Microcontrollers & PCB Design
- DFM & Reliability

Work Experience

Embedded Systems & Hardware Engineer (Freelance) 2011 – Present

- Designing STM32-based boards, Ethernet interfaces, DDR power systems.
- Ensuring signal integrity and manufacturable PCB layouts.
- Delivering hardware from schematic to production-ready.

Certificates

- Electromagnetic Compatibility Essentials - TU Graz
- Introduction to FPGA Design - University of Colorado Boulder
- Introduction to Power Electronics - University of Colorado Boulder

Contact

- LinkedIn: [linkedin.com/in/sobhanjp](https://www.linkedin.com/in/sobhanjp)
- Telegram: [@sobhanjp](https://t.me/sobhanjp)
- www.engsobhan.tech