Xin Lin

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Summary

I am a seasoned Electronics Engineer with over 10 years of experience in designing high-performance PCBs, developing embedded firmware, and managing product lifecycles from concept to production. I specialize in creating complex, multi-layer PCB designs, custom firmware solutions, and product engineering for diverse industries. My expertise includes optimizing design processes and ensuring the highest standards of quality and efficiency.

Skills

- **Programming Languages:** C#, C, C++, Python
- **CAD Tools:** Altium, EasyEDA, Eagle, Solidworks
- **Firmware Platforms:** PlatformIO, STM32CubeIDE, MplabX, ESP-IDF
- **Others:** MATLAB, LABVIEW, PYQT5

Work Experience

Technical Support Engineer

POE Precision Electronics Co., Ltd | Aug 2021 – Present

- Spearhead PCB services, including circuit design, schematic capture, and PCB layout, manufacturing, assembly, and testing.
- Work closely with suppliers to ensure high-quality control measures are followed and that products meet performance specifications.

Senior Hardware Design Engineer

Liaoning Jiayu Electronics Products Co., Ltd. | Aug 2019 – Aug 2021

- Specialized in temperature sensors, PTC thermistors, and temperature control modules for industries like aerospace, military, and automotive.
- Oversaw the production of critical components in high-demand environments, ensuring the highest standards in design and testing.

Education

Bachelor of Science in Electronics Engineering
The Huazhong University of Science and Technology | 2013 – 2018
• Graduated with Honors
• Relevant Coursework: PCB Design, Embedded Systems, Firmware Development, Signal Processing

Projects

• GPS Tracker - Designed a real-time GPS monitoring system for fleet management.
• Smart Fork - Developed a smart device to track user eating habits and provide feedback.
• Aquarium Light Controller - Created an automated lighting system with color control and scheduling.
• 4KW UPS - Engineered a high-power uninterruptible power supply for critical systems.
• AI-Powered Driver Assistance System - Developed a driver assistance system based on Raspberry Pi CM4 for vehicle safety.

Languages

• Chinese (Native)
• English (Fluent)