SMT
SURFACE MOUNT TECHNOLOGY
CORPORATION

SMT 2022/23 Recruitment-
SMT Engineering Hardware Design Engineer II

Position: Hardware Design Engineer II

Qualifications: Bachelor's or Master's degree in Electrical Engineering, Computer Engineering, Embedded Engineering. 5+ years of professional experience.

Ideal Experience: 7+ yrs experience**.**

Incentives: Attractive Salary and Benefits. Relocation Package. Great Work/Life Balance.

Keywords:

Embedded Engineer
Hardware Engineer
Embedded Hardware Engineer
Electronics Design Engineer
Hardware Designer
Electrical Engineer

Position Summary:
SMT engineering is looking for experienced hardware design engineers to join our growing team. This is a key role within our engineering department – responsible for hardware development efforts from early specification, BOM dev, and schematic- through testing, regulatory, and manufacturing transition. We are looking to find talented individuals that have solid experience focused on embedded hardware design, prototyping & manufacturing, verification testing, and EMC compliance testing. Candidates with a wide variety of hardware design experiences will excel in our environment. However, we are also seeking specialist's skills in power systems, high speed digital, graphics, RF/IoT, and EMC. This position engages in a cross functional team environment alongside firmware engineers, test engineers, and manufacturing teams. With an industry leading PCB manufacturing department in-house, SMT hardware engineers are able to optimize designs from birth, to full scale production working alongside our highly skilled manufacturing team. We need strong technical minds with the skills and confidence to plan and execute complex hardware design efforts, maintain schedule and scope, and drive projects to completion.

Individuals who are motivated by a fast paced environment with exposure to many different technologies will thrive at SMT. In this role- you will have the opportunity and autonomy to further define how SMT helps clients bring world class products to life! Our clients are focused in embedded industrial controls, life sciences, lighting, light medical, and automotive. Where quality, safety, and predictability are paramount.

Qualified candidates should excel in developing stable, efficient, and effective hardware designs packages optimized for quality and manufacturing.

Technical Skills:

- Hardware Architecture/Specification development
- Component Engineering, BOM Development
- Significant experience working with various MCU base systems
- Focused experience with 8051, AVR, MicroChip,and ARM architectures.
- Altium Designer Experience Preferred
- PCB Transmission Lines
- High Speed Digital Design, Controlled Impedance.
- 0-1kW Power Systems
- Battery Power Systems
- Low power RF
- External Memory, Graphics interfaces
- External Memory/Data – EEPROM, FLASH, SD, MMC
- Commercial/Industrial Wired Protocols – RS485, CAN, USB, ModBus etc.
- Compliance. Design for Compliance, Compliance Testing
- Hands on Lab experience- POC development, Testing & Verification, Troubleshooting
- Solid foundational skills working with common electronics lab equipment
    - O-Scopes, Logic Analyzers, Active Probes, AFG, Spec Analyzers, VNA's, Power Analyzers, etc.

Responsibilities:

- Development and management of specification and architectural documents.
- BOM Development and component life-cycle analysis
- Solid design skills using industry leading software tools- Altium focused.
- Schematic capture and PCB design – Following strict IPC and SMT standards
- Design for XXX. Manufacturing, Testing, Sourcing.
- Design Review Processes
- Design for – and execution of regulatory compliance testing- FCC, EMC, IEC, UL
- Development and execution of verification testing
- Lab/Hands-on POC development, Testing and Verification, and troubleshooting
- Hardware design process