

## Reliability Hardware Engineer

**Type:** Full-time  
**Reports To:** Director of QA and Reliability  
**Location:** Manilla, Philippines

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### ROLES & RESPONSIBILITIES

- Design and develop Reliability Hardware for HTOL, BHASt, ESD and Latch Up, meeting reliability IPC / Jeduc requirements.
- Release PCB databases and assembly instruction for manufacturing and support all vendor questions related to design issues.
- Perform complex CAD and CAE tasks requiring extensive skill and knowledge of equipment capabilities, applications techniques, and design limitations.
- PCB BOM selection and procurement while coordinating with PCB fabrication and assembly manufacturing.
- Maintain technical coordination with Reliability, Design, Applications, PTE and PCB Manufacturing.
- Resolve Reliability Hardware issues with fabrication and assembly manufacturing vendors.
- Bench validation of trouble shooting of Reliability Hardware.

### QUALIFICATIONS AND EDUCATION REQUIREMENTS

- 5 years of experience related to PCB hardware design, especially with Reliability Tests like HTOL, bHASt, ESD and latch up use.
- Understanding of power topologies such as buck, boost, buck-boost, charge pumps, LDOs.
- Knowledge of board level considerations, including component selection, PCB layout, packaging technologies and thermal analysis
- Experience in Altium and / or Cadence Allegro.
- Knowledge of IPC standards for fabrication and assembly.
- Knowledge of PCB material properties, including CTE, Dk, Df and Tg.
- Knowledge of component board surface mount process, including SMD and NSMD.
- Hands-on experience working with lab equipment such a multi-meter (DMM), oscilloscope, power supplies, signal generator, power amplifiers, spectrum and network analyzers.

### Preferred Qualifications

- Knowledge of semiconductor Reliability stress testing requirements. Experience with semiconductor burn-in oven/chambers.
- Experience with PCB design of AC/DC, DC/DC and / or PMIC solutions.
- Experience with new technology qualification for high voltage devices.