Senior Hardware Electronic Engineer

Leuze electronic Private Limited
5-7 years
Bangalore, India

About Leuze Electronic

With curiosity and determination, we – the Sensor People from Leuze – have been innovators for technological milestones in industrial automation for more than 50 years. The success of our customers is what drives us alongwith our work future-oriented work, Leuze continuously sparks new ideas thus actively contributing to progress within the industry.

Website: www.leuze.com

Below are the Key Responsibilities but not limited to:

Key Responsibilities & Duties:

- Lead the design process of industrial sensors from initial idea through to series production, ensuring high-quality and performance standards are met.
- Assume responsibility for hardware project management within interdisciplinary and international teams, also including external partners.
- Develop and optimize hardware systems for miniaturized and cost-effective inductive sensors
- Create circuit diagrams, perform simulations using software such as SPICE, and oversee PCB design and layout.
- Set up, commission, and verify circuits and sensors, and conduct necessary type tests (e.g., temperature, isolation, EMC) and release measurements.
- Develop detailed specifications, documentation, and ensure designs meet industry standards such as CE compliance.
- Coordinate with Electronic Manufacturing Services (EMS) providers and manage supplier and component qualification.
- Support products throughout the entire lifecycle, from initial development to post-production support and troubleshooting.
- Perform detailed analog and digital circuit design, including schematic capture and board layout.
- Test prototypes, analyze results, and perform design robustness analyses, such as margin and failure mode analysis.
- Program and debug embedded systems firmware as required.
- Develop production test specifications, work closely with partners to ensure a smooth transition to mass production, and provide ongoing support for series products.
- Train and mentor other technicians and engineers in areas such as schematic design, layout, sample testing, and reliability testing.
- Assist the testing team with compliance tests (EMI, EMC, UL, CE) and coordinate with the service team for product reliability and field trial analysis.
- Participate in technical investigations and analyze test results to identify and solve any discrepancies.

Qualifications:

- Master's degree in Electronics Engineering, Electrical Engineering, or a related field.
- 5-7 years of experience in PCB design and hardware electronics engineering.

Technical Skills:

- Proficiency in theoretical and practical knowledge in PCB design software (such as Altium Designer, OrCAD, KiCAD, Eagle).
- Strong understanding of analog and digital circuit design principles

- Knowledge and experience in the field of EMC, especially with PCB-layouts and best practices in testing methods.
- Familiarity with microcontrollers, microprocessors, and embedded systems.

Soft Skills:

- Excellent problem-solving and analytical skills.
- Strong communication and teamwork abilities.
- Attention to detail and ability to manage multiple projects simultaneously.
- Creativity and high-cost awareness
- Ability to present to stakeholders and managers.
- High degree of independence and a systematic way of working
- Willingness to take on responsibility and implement ideas with great commitment.