Job Description
Senior Hardware Designer

About Elecbits

Elecbits is a tech-enabled B2B platform that helps Electronics Enterprises to go from an idea to a shelf ready, commercial Electronics Product. We cover the end-to-end intricacies involved in the Electronics product development & manufacturing cycle using 25+ micro-services on our platform.

We are proud to have worked with more than 100 eminent enterprises, digitizing their product development and manufacturing lifecycle. Some notable names are Ola Electric, Urban Company, Maruti Suzuki, Bosch, V-guard, Luminous, Phone pe, Escorts Kubota, Napino, etc. We are the largest B2B Electronics development and manufacturing platform of its kind, having more than 3000 global Electronics manufacturers and suppliers on our platform.

Key Responsibilities

We are on a mission to build the digital and physical infrastructure for every electronics enterprise on the planet.

Product Development and Leadership:

- Design and develop electronic hardware systems, including schematic capture, PCB layout, and component selection.
- Ensure designs meet performance, cost, reliability, and manufacturability requirements.
- Conduct feasibility studies and research to evaluate new technologies, components, and design approaches.

Collaboration and Communication:

- Collaborate with software engineers, mechanical engineers, and product managers to define and develop hardware requirements and specifications.
- Work closely with teams to integrate hardware with software and mechanical components.
- Collaborate with suppliers and manufacturers to select and source components.
- Manage component obsolescence, resolve technical issues, and support mass manufacturing of at least 5,000 units.

External Relations and Partnerships :

- Perform Signal Integrity (SI) analysis, Power Distribution Network (PDN) analysis, and Electromagnetic Interference/Electromagnetic Compatibility (EMI/EMC) analysis.
- Conduct thorough design analysis, simulation, and validation to meet industry standards and safety regulations.

Team Management and Development:

- Design solutions for IoT devices, including architecture and hardware prototype development.
- Experience in developing IoT products from scratch and working with System on Modules (SOM) such as Quectel, Neoway, and SIMCOM.

Project Management and Resource Allocation :

- Stay updated with industry trends, emerging technologies, and best practices.
- Drive continuous improvement initiatives, focusing on cost reduction, design optimization, and increased efficiency.

Role Overview:

We are seeking a skilled Hardware Design Engineer to lead the development of electronic hardware systems from concept to mass production. This role involves schematic design, PCB layout, component selection, system integration, and validation. The ideal candidate will have hands-on experience with IoT hardware, SOMs (e.g., Quectel, Neoway, SIMCOM), and a strong grasp of SI/PDN/EMI-EMC analysis. You will collaborate cross-functionally with software, mechanical, and manufacturing teams to deliver high-performance, cost-effective, and reliable hardware solutions at scale.

Why Join Us?

Work hard, party harder:

Our mantra balances dedication and celebration.

No self-imposed limits:

We encourage you to push your boundaries and reach your full potential.

Energized environment:

Our company's energy fuels growth and self-improvement.

Good vibes only:

We foster a positive and supportive atmosphere for all.

Preferred Skills-:

- Proficiency in PCB design and layout tools such as OrCAD, Allegro, PADS Layout, Dx Designer, Hyperlynx, CAM350, GC Preview, and ADS.
- Strong proficiency in hardware architecture and design, R&D, and proof-of- concept development.
- Basic understanding of firmware and firmware-level debugging.
- Deep understanding of certification standards and regulatory requirements.
- Experience with mass manufacturing and high-volume production.

- Bachelor's or Master's degree in Electrical Engineering, Electronics Engineering, or a related field.
- 8+ years of experience in hardware design with expertise in digital and analog circuit design.
- Hands-on experience with IoT product development and SOM modules.

Job Type	City	Cost to Company
Full Time	Gurugram/Bangalore	

How to apply?

Please mail your resume at careers@elecbits.in in the following format.

Mail Subject: {{name}} – Application for {Senior Hardware Designer}

Also, add the following details while mailing

Total work experience

_____

Current CTC

_____

Date of joining

_____

Attach your latest resume

Be a part of our team that works toward Exponential growth-:

We are looking for immediate joiners with a maximum notice period of 1 month.

This would be an in-office role for our Gurugram branch.