Senior Hardware Designer

Work Areas
PCB Architecture | Digital Electronics
| Power Electronics

Location
Gurgaon/Bangalore

Department
Research And Development

Employment type
Permanent Full-Time

About Us

Elecbits is India's leading full-stack, vertically integrated Electronics engineering and manufacturing organisation, enabling customers like Panasonic, Yamaha, Maruti Suzuki, OLA, Valeo, and 200 others to go from idea to mass production in a simpler, faster, scalable manner.

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

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.

Responsibilities:

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Product Development and Leadership:

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

Collaboration and Communication :

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

External Relations and Partnerships :

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

Team Management and Development:

1. Design solutions for IoT devices, including architecture and hardware prototype development.
2. 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 :

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

Requirements:

Must Haves:

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

Education & Experience:

1. Bachelor's or Master's degree in Electrical Engineering, Electronics Engineering, or a related field.
2. 8+ years of experience in hardware design with expertise in digital and analog circuit design.
3. Hands-on experience with IoT product development and SOM modules.

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 as a {Profile Name} (in years/months)
- Current CTC Date of joining Attach your latest resume

Note: 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.
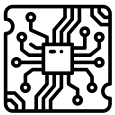
What makes Elecbits a great place to work:

We believe electronics is more than a field—it's the foundation of the future. From design to prototyping to production, we're reimagining how hardware companies innovate, collaborate, and scale.

We're not just building a company—we're building the foundation for a global electronics revolution, with India at the forefront.

So if you believe in the power of Electronics to change the world, and you're ready to build the infrastructure that makes it all possible—join us.

Engineering Centric Culture

We foster a hands-on culture where passionate engineers solve real-world problems at the intersection of hardware and firmware.

High Ownership, High Impact

Hardware is hard and everyday we are working towards changing that with a team that takes high ownership and creates large impact

Built in India, For the World

We're here to make India the next global hub for electronics innovation and manufacturing. Every line of code, every PCB — brings us one step closer.

'Building the digital physical infrastructure for every electronics enterprise on the planet'

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