# Job Description

# R&D SENIOR HARDWARE DESIGNER

**Elecbits**

Simpler. Faster. Digital Manufacturing
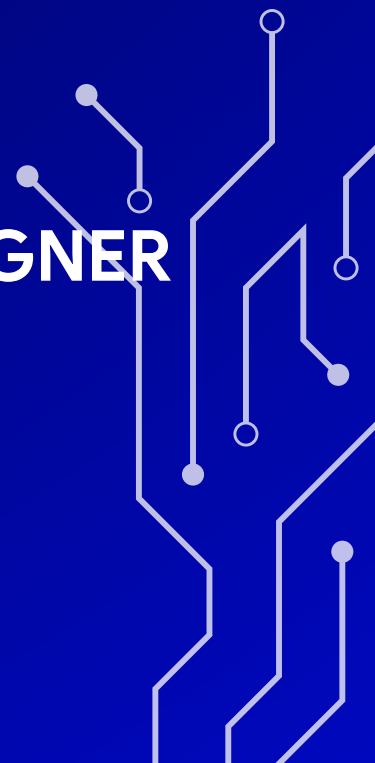
# Elecbits

Elecbits is a tech-enabled B2B platform that provides best-in-class Electronics designing & manufacturing solution to electronics enterprises and startups.

- Next- Generation Design Solutions - Designed in India Hardware products for EV, Fintech, Consumer etc. industry.

- Digital Manufacturing Platform for Sourcing components, PCBs & Supply chain management providing the best lead times and pricing globally.

- Elecbits vendor network has 3000+ vetted vendors for PCB Fabrication, BoM procurement and PCB Assembly.
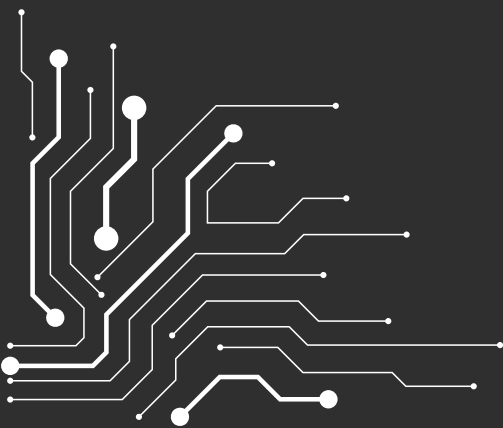
Designing & Financial Modelling

Eb- Enclosure & Mechanical Parts
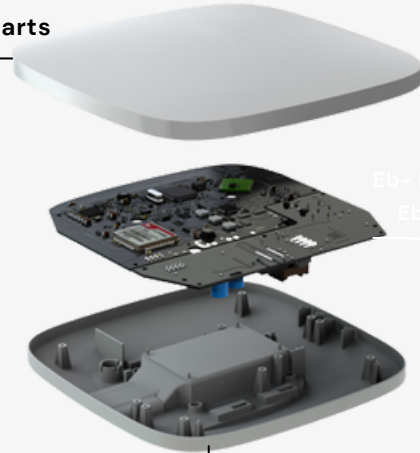
Testing & Certification

# Our Vision

**To build next-gen physical and digital infrastructure for electronics enterprises and startups.**

# Responsiblities

### 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.

# Responsiblities

### Technical Expertise and Market Awareness

- Stay informed on the latest market trends, emerging technologies, and the competitive landscape within the electronics industry to identify new opportunities for product innovation.

### 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.
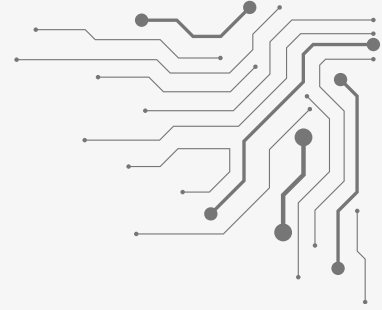
# Requirements

### Education and Experience

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

### Programming Proficiency

- 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.

### System Understanding

- Basic understanding of firmware and firmware-level debugging.
- Deep understanding of certification standards and regulatory requirements.

### Ideal

- Excellent problem-solving skills, with the ability to perform detailed design analysis and testing.
- Experience with mass manufacturing and high-volume production.

## Desirable Skills

**Team Player**
Strong ability to work as a team player

**Targets under deadlines**
Capable of executing targets under stipulated deadlines

**Communication**
Excellent communication and interpersonal skills

# WHY JOIN US?

Unlock Your Potential: Where Dedication Meets Celebration.

## Happiness

Happiness isn't a perk, it's our pulse. We foster a culture of joy, open communication, and growth. It fuels creativity, success, and makes us who we are.

## Health

Stress-free & thriving. Ergonomic spaces, wellness programs - we prioritize your health & well-being for a more engaged, resilient team. Healthy employees, successful company.

## Excitement

Thriving on Innovation. We push boundaries, foster creativity, and empower ideas. Collaborative decisions fuel excitement and continuous growth.

## Passion or nothing

Passion is our DNA. Excitement for every project fuels a team of go-getters who achieve extraordinary things.

# Brotherhood and camaraderie

**Family, not colleagues. We build trust, support, and a sense of belonging. This strong team spirit fuels communication, collaboration, and our shared success.**

# Never afraid of failing

**Fail. Learn. Rise. We embrace challenges, see setbacks as lessons, and constantly push for improvement. It's how we innovate and win.**

# Heavy focus on personal growth

**Grow with us. We invest in your skills, offer mentorship, and empower continuous learning. Reach your full potential, inside and outside of work.**

# Live your life to the fullest

**Work hard, play hard. We celebrate wins, encourage downtime, and value a rich life outside the office. Balance fuels success.**

# National Impact

**Our mantra balances dedication and celebration. We believe in putting in the effort while also enjoying the journey.**

## Culture

**Our mantra balances dedication and celebration. We believe in putting in the effort while also enjoying the journey.**

# How to apply

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

New Message     _   ⤢   ✕

careers@elecbits.in

Subject: {{name}} - Application for R&D Senior Hardware Designer

Also, add the following details while mailing
- Total work experience as a Hardware Associate (L1) (in years/months)
- Current CTC
- Date of joining
- Attach your latest resume

**Send** ▾     ⋮   🗑

This would be an in-office role for our
## Gurugram branch
We are looking for immediate joiners with a maximum notice period of 1 month.