

Job Description

R&D Firmware Designer

 **Elecbits**

Simpler. Faster. Digital Manufacturing



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

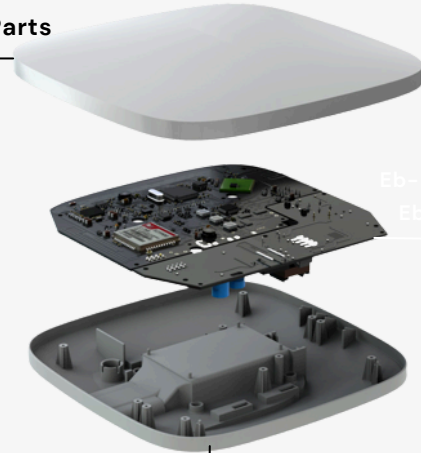
- Next- Generation Design Solutions - Designed in India Hardware products for EV, Fintech, Consumer etc. industry.
- Digital Manufacturing Platform for Sourcing components, PCBs & Supply chain management providing the best lead times and pricing globally.
- Elecbits vendor network has 3000+ vetted vendors for PCB Fabrication, BoM procurement and PCB Assembly.



Designing & Financial Modelling



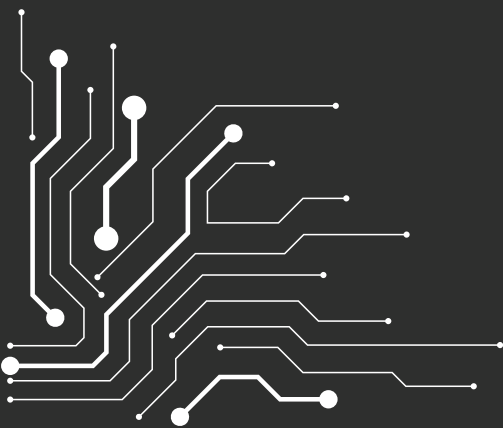
Eb- Enclosure & Mechanical Parts



Testing & Certification

Our Vision

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





Responsibilities

Product Development and Leadership

- Handle the design, development, and testing of firmware for electronic systems, ensuring they meet functional and performance requirements.
- Develop and optimize algorithms for signal processing, control systems, data analysis, and other relevant applications.

Collaboration and Communication

- Collaborate with hardware engineers to define hardware/firmware interfaces and specifications.
- Collaborate with product managers to define project requirements, scope, and timelines, and actively participate in project planning and execution.

External Relations and Partnerships

- Lead the debugging and troubleshooting efforts to identify and resolve firmware and algorithm-related issues.
- Work closely with software developers to integrate firmware with higher-level software components and ensure seamless functionality.





Responsibilities

Technical Expertise and Market Awareness

- Stay up-to-date with the latest industry trends and emerging technologies in firmware development and algorithm design.

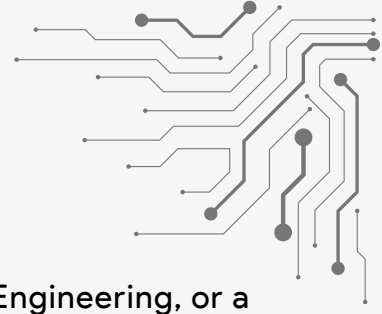
Team Management and Development

- Foster a positive and collaborative work environment that values camaraderie, brotherhood, curiosity, and continuous learning within the R&D team.
- Encourage experimentation and exploration of new ideas while providing leadership, guidance, and mentorship to team members, empowering them to excel and grow in their roles.

Documentation

- Prepare and maintain detailed documentation, including design specifications, test plans, and technical reports.





Requirements



Education and Experience

- Bachelor's or Master's degree in Electronics, Electrical Engineering, or a related field (3+ years of experience).
- Strong proficiency in programming languages: C and C++ (Highly recommended), Embedded C, Register level programming.



Programming Proficiency

- Experience with frameworks: Espidf, Arduino(recommended), STM32 CUBEIDE and Experience with controllers: ESP32, ATmega328, STM32F1/F3/F4, MSP430
- Experience with communication protocols:
 - Embedded protocols: SPI, I2C, UART, CAN (additional benefit), RS485
 - Wireless protocols: MQTT, HTTP/HTTPS Bluetooth/BLE, Wi-Fi, Cellular
- Experience with hardware/firmware co-design and familiarity with hardware design principles and considerations.(Recommended)
- Experience with Real-Time-Operating-System: FreeRTOS/POSIX
- Experience with tools: VSCode(highly recommended), Eclipse IDE, PlatformIO, cmake, openCPU((highly recommended)



System Understanding

- Proven track record leading projects from concept to launch
- Proven track record of delivering high-quality firmware and algorithm solutions on schedule.
- Strong understanding of register level programming and library creation and concepts of event driven programming



Ideal

- Passionate innovators with B2B startup project management experience seeking to build the future in a collaborative environment.
- Curiosity, pleasant personality, fosters camaraderie

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 Firmware Designer

Also, add the following details while mailing

- Total work experience as a Firmware 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.