

Embedded Software Engineer

Full time, 37.5 hours per week

Location: Hanoi, Vietnam

Report to: Head of Hardware and Control

Blacksheep is a fast-growing international science and technology company - a great place to develop your career in Vietnam. Focusing on development of world leading products for high growth markets, the company designs, develops and manufactures truly innovative products in Vietnam. Our projects in Vietnam range from high power electric motorbikes to medical machines, and our products are used for many scientific and commercial applications including biology, chemistry, biotech research, material sciences and scientific discovery and all need to follow ISO standards appropriate for the resulting products.

Our objective is to pioneer the development of Vietnamese designed, developed, manufactured and marketed cutting edge products with world leading performance and quality to be sold in global markets. We are looking for highly energetic, men and women engineer to join us to drive Vietnamese engineered products to the world.

Duties will include but are not limited to:

- Collaborating with colleagues to specify, design, implement, release, and support embedded software products for R&D software development department, including:
 - Participating in embedded design projects from concept to production.
 - Developing utilities, using C/C++, scripting in support of the embedded system development process.
 - Contributing to testing activities, including unit testing, integration testing, and debugging efforts.
 - Evaluating performance and troubleshooting as needed.
 - Documenting firmware design, code, and test procedures to maintain clear and comprehensive project documentation.
- Demonstrate leadership potential by taking ownership of tasks, providing guidance to junior engineers, and actively contributing to team discussions
- Keeping abreast of technological developments and industry best practices
- Working closely with project teams based internationally to ensure projects are delivered on target
- Support multiple platforms and projects for internal and external customers
- Review code and manage version control, which are essential tasks to ensure the quality and integrity of our firmware solutions
- Other duties as assigned

Required skills and capabilities:

- Bachelor of Engineering
- 2+ years of experience in embedded systems firmware development, with a strong understanding of firmware architecture and design principles
- Proficiency in programming languages such as C/C++ and experience with embedded development tools and environments
- Knowledge of microcontroller/microprocessor-based embedded systems and familiarity with real-time operating systems (RTOS) is highly desirable
- Experience in communication protocol (e.g. UART, I2C, SPI, CAN, RS485, etc.)
- Experience with Arm Cortex and/or PIC microcontrollers and peripherals
- Strong collaborator, able to excel in a dynamic, fast-paced environment
- Working proficiency in English in all four skills, equivalent to B2 (CEFR) or higher, We value clear communication and comprehension skills in English as part of this role.
- Ability to learn new things, which is more important than deep existing experience, supported by real-life examples
- Proficiency in utilizing software development environments and tools such as Git, GitLab, GitHub and Jira
- Experience in writing sustainable/maintainable quality code
- Leadership potential demonstrated through proactive involvement in projects, mentoring of junior engineers, or participation in team initiatives
- Proven ability to troubleshoot and debug complex firmware issues, with strong problem-solving skills

Previous useful experience:

Any of mentioned skilled with firmware development as priority.

- Experience with higher level programming language, such as Python
- Experience with connectivity stacks such as Bluetooth, WiFi, Ethernet
- Experience with storage solutions, block device drivers and file system
- Experience with circuit design
- Understanding of development methodologies and project management
- Team management skill

Benefits:

- 20 casual leave days per year
- Private health insurance
- Opportunity to work in an international, friendly, creative, and active environment
- Approach to most advanced technology in the world

- Opportunity to collaborate with world leading engineers

If you would like to apply for this position, please email your covering letter addressing each of the job requirements and CV to:

Giang.nguyen@blacksheepower.com for the attention of **Ms Giang Nguyen, Operations Director**

We are an equal opportunities employer, and we particularly encourage women to apply for this engineering job.

We look forward to hearing from you!
Blacksheep Vietnam Co., Ltd.