



PR/097548 | Lead Software Engineer (Optical DSP_Photonic)

Job Information

Recruiter

JAC Recruitment Singapore

Job ID

1609277

Industry

Business Consulting

Job Type

Permanent Full-time

Location

Singapore

Salary

Negotiable, based on experience

Refreshed

August 25th, 2026 10:43

General Requirements

Minimum Experience Level

Over 6 years

Career Level

Mid Career

Minimum English Level

Fluent

Minimum Japanese Level

None

Minimum Education Level

Associate Degree/Diploma

Visa Status

No permission to work in Japan required

Job Description

COMPANY OVERVIEW

The client deep-tech startup focused on next-generation semiconductor and photonics technologies for AI infrastructure.

We are looking for an experienced Software Lead to drive the development of firmware and software platforms supporting cutting-edge optical communication products. This position combines technical leadership with hands-on engineering responsibilities, encompassing SDK development, embedded software, firmware architecture, and cross-functional product integration.

JOB RESPONSIBILITIES

- Lead, mentor, and grow a team of software engineers responsible for SDK, firmware, and embedded software development.
- Define software architecture, technical strategy, and development best practices.
- Design, develop, maintain, and enhance software solutions for semiconductor and optical networking products.

- Translate product and customer requirements into robust software features and system capabilities.
- Ensure software solutions meet performance, reliability, scalability, security, and quality objectives.
- Participate directly in software design, coding, debugging, integration, testing, and issue resolution for critical components.
- Work closely with hardware, ASIC, RTL, validation, applications, and systems engineering teams throughout product development cycles.
- Develop APIs, software utilities, diagnostic tools, and supporting applications.
- Conduct code reviews and establish coding standards, development methodologies, and engineering processes.
- Manage project planning, resource allocation, technical risks, and delivery timelines.
- Prepare and review technical specifications, design documentation, and engineering reports.

JOB REQUIREMENTS

- Bachelor's degree or higher in Computer Science, Computer Engineering, Electronics Engineering, Communications Engineering, or a related discipline.
- Minimum 5 years of hands-on experience in embedded C/C++ software development.
- Must have experience with optical communications, optical networking equipment, or Optical DSP technologies.
- Familiarity with semiconductor, ASIC, FPGA, or silicon-based product development.
- Strong understanding of software engineering principles, embedded systems, and firmware development.
- Strong proficiency in C and C++ programming.
- Extensive experience developing embedded software and firmware solutions.
- Solid understanding of software architecture, coding standards, debugging methodologies, and documentation practices.
- Ability to independently deliver complex software components from design through validation and deployment.
- Proven experience coordinating cross-functional development efforts and leading software projects.

Working Location: Singapore

Syahirah Binte Ahmad Ja'afar (R22105331)
JAC Recruitment Pte. Ltd. (90C3026)

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Company Description