

CYIENT

Vehicle battery control software development

Job Information

Hiring Company
[Cyient K.K.](#)
Job ID

1490314

Industry

Automobile and Parts

Company Type

Large Company (more than 300 employees)

Job Type

Permanent Full-time

Location

Ibaraki Prefecture

Salary

Negotiable, based on experience

Refreshed

April 1st, 2025 11:00

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Business Level

N2 and above

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

Position: Vehicle battery control software development

Location: Hitachinaka

Language: N2 and above

Job Description:

We are seeking a talented and experienced Vehicle Battery Control Software Engineer to join our growing team. In this role, you will be responsible for the entire development lifecycle of software for our vehicle battery control systems. You will be involved in all stages of the development process, from design and coding to testing and validation.

Responsibilities:

- Participate in the complete software development lifecycle for vehicle battery control systems

- Develop and maintain efficient and well-documented C/C++ code for battery control functionalities.
 - Collaborate with design engineers to understand system requirements and translate them into software specifications.
 - Participate in code reviews and ensure adherence to coding standards and best practices.
 - Work closely with test engineers to define and implement test cases for various functionalities.
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Required Skills

Required Skills:

- Bachelor's degree in Computer Science, Electrical Engineering, or a related field.
- Minimum 3+ years of experience in embedded software development for automotive applications (or equivalent level of experience in a related field).
- Strong proficiency in C/C++ programming language.
- Experience with development tools and methodologies for embedded systems.
- Understanding of software development lifecycle (SDLC) for safety-critical systems (a plus).

Desired Skills:

- Experience in developing software for electric vehicle (EV) battery control systems (a plus).
 - Experience with C# programming language (a plus).
 - Knowledge of Pulse Width Modulation (PWM) processing for battery management.
 - Knowledge of Controller Area Network (CAN) communication protocols.
 - Experience with Hardware-in-the-Loop Simulation (HILS) for testing battery control systems (a plus).
 - Strong problem-solving and analytical skills.
 - Excellent communication and collaboration skills.
 - Ability to work independently and as part of a team in a fast-paced environment.
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Company Description