

CYIENT

Construction Machinery HMI Developer

Job Information

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

1490439

Industry

Automobile and Parts

Job Type

Permanent Full-time

Location

Chiba Prefecture

Salary

Negotiable, based on experience

Refreshed

June 3rd, 2025 04:00

General Requirements

Minimum Experience Level

Over 6 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: Construction Machinery HMI Developer**Location:** Katsuta**Language:** N2 and above**Job Description:****Responsibilities:**

- HMI Development Lifecycle:
- Participate in the design process for HMI functions, ensuring alignment with user needs and project specifications.
- Develop detailed designs for HMI features, including user workflows, screen layouts, and interaction paradigms.
- Design unit tests to thoroughly verify the functionality of individual HMI components.
- Implement HMI features using C/C++ and Python programming languages.
- Integrate HMI components with the overall system architecture.
- Testing and Verification:
- Conduct comprehensive unit testing to ensure the correctness and functionality of HMI code.

- Collaborate with the testing team to execute integration testing, verifying seamless interaction with other system components.
 - Technical Expertise:
 - Perform static analysis of code to identify potential bugs and maintain code quality.
 - Maintain and document HMI code for future reference and maintainability.
 - Stay up-to-date on the latest advancements in HMI design and construction machinery technology.
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Required Skills

Qualifications:

- Bachelor's degree in Computer Science, Software Engineering, or a related field (preferred).
 - Minimum of 5 years of experience in developing HMI applications, preferably for industrial or embedded systems.
 - Strong proficiency in C/C++ and Python programming languages.
 - Experience with user interface design principles and best practices.
 - Experience with unit testing frameworks and methodologies.
 - Familiarity with static code analysis tools (e.g., Coverity, PVS-Studio).
 - Experience developing with Ubuntu for embedded systems (a plus).
 - Excellent problem-solving and analytical skills.
 - Strong written and verbal communication skills.
 - Ability to work independently and manage multiple tasks effectively.
 - A passion for construction equipment and user experience is a plus.
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Company Description