

# 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**

February 4th, 2025 10:01

### 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