ADAS Verification & Validation Engineer

Job Information

Recruiter
NEXUS Corporation

Job ID
1591393

Industry
IT Consulting

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards

Salary
7 million yen ~ 11 million yen

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General Requirements

Minimum Experience Level
Over 6 years

Career Level
Mid Career

Minimum English Level
Business Level

Minimum Japanese Level
Business Level

Minimum Education Level
Bachelor's Degree

Visa Status
Permission to work in Japan required

Job Description

About the Department:
The IoT and Digital Engineering division helps businesses accelerate digital transformation by building intelligent, software-defined, AI-enabled, and secure products. The team works closely with Automotive OEMs and Tier-1 suppliers to support the development of next-generation Software-Defined Vehicles through engineering expertise, AI-driven solutions, cloud technologies, IoT platforms, and cybersecurity.

The organization promotes collaboration, continuous learning, and delivery excellence by combining strong local expertise with global engineering capabilities. Employees get the opportunity to contribute to large-scale automotive transformation projects focused on future mobility solutions.

About the Project:
This is a multi-program engagement with a leading global Tier-1 automotive customer focused on end-to-end ADAS and Autonomous Driving system development.

The project team works across:
- Project Management
- System Architecture Design
- Software Development

- AI Integration
- System Integration
- System Validation
- Functional Safety
- Cybersecurity
- Process Compliance

The project focuses on delivering scalable, safe, intelligent, and production-ready ADAS solutions while accelerating development cycles and maintaining strong quality governance.

About the Position:
As an ADAS Verification & Validation Engineer, you will play a key role in validating autonomous driving algorithms and ADAS functionalities.

Key responsibilities include:
- Designing and executing MIL and SIL test cases
- Performing result analysis and maintaining requirements traceability
- Validating ADAS features such as ACC, AEB, LKA, sensor fusion, and decision-making algorithms
- Working with MATLAB Test, Simulink Test, and Python-based automation frameworks
- Performing scenario-based simulation testing
- Collaborating with developers and system engineers during requirement reviews and defect analysis
- Supporting release readiness, quality validation, and functional safety activities

This role offers strong technical exposure, strategic involvement, and an opportunity to work on advanced ADAS technologies in a global engineering environment.

Job Responsibilities:
- Execute verification and validation activities for ADAS algorithms
- Develop and execute test cases for C/C++ and Simulink-based software components
- Prepare test specifications, test reports, and validation documentation
- Participate in requirement clarification and defect triage discussions
- Execute MIL, SIL, and HIL testing activities
- Automate test scenarios and analyze failures
- Perform log analysis and root cause investigation
- Support regression testing and release validation
- Ensure traceability between requirements, test cases, and test results
- Create test scenarios, execute tests, analyze results, and provide corrective suggestions to development teams

Required Skills:
- Bachelor’s degree in Electronics, Computer Engineering, Electronics & Communication, or related fields
- 8+ years of experience in Automotive ECU application software verification and validation
- Hands-on experience in embedded software or algorithm validation using C/C++ and/or MATLAB/Simulink
- Experience in test case design and execution for model-based or code-based systems
- Understanding of structured development methodologies such as V-Model or Agile
- Strong collaboration skills with cross-functional engineering teams

Language Requirements:
- Japanese and English bilingual capability
- Advanced business-level Japanese is mandatory
- English communication required for offshore coordination
- Japanese communication required for customer interaction

Employment Type:
- Full-time employee
- Discretionary labor system applicable depending on role
- Standard deemed working hours: 8 hours/day

Salary & Benefits:
- Salary will be decided based on experience and skills
- Additional discretionary work allowance applicable depending on role
- Annual salary revision and bonus available

Working Hours:
- 9:00 AM to 6:00 PM
- Flexible work system available
- Core hours: 10:00 AM to 4:00 PM

Holidays & Leave:
- Paid leave
- Complete 5-day work week
- National holidays
- Year-end/New Year holidays
- Special leave
- Childcare and caregiving leave

Benefits:
- Health insurance
- Pension

- Employment insurance
- Workers' compensation
- Cafeteria-style benefit program
- Corporate membership facilities

Work Location:
- Yokohama / Customer location

Company Description