

Video Pipeline & Vision Systems Engineer (ADAS)

Job Information

Recruiter[Izumi Network Yugen Kaisha](#)**Job ID**

1610087

Industry

Automobile and Parts

Job Type

Permanent Full-time

Location

Tokyo - 23 Wards

Salary

7 million yen ~ 8 million yen

Refreshed

September 2nd, 2026 13:30

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Daily Conversation

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

Role Overview

Seeking an experienced **Video Pipeline & Vision Systems Engineer** to support the development, validation, and deployment of camera-based ADAS solutions for automotive customers in Japan. The role focuses on video processing, image quality optimization, image stabilization, optics, and camera system performance. Based on the ADAS customer-facing role structure provided in the reference document.

Key Responsibilities

- Develop and optimize camera video processing pipelines for ADAS applications.
- Support image stabilization, image quality tuning, lens distortion correction, HDR, and low-light performance.
- Perform camera calibration, validation, debugging, and root cause analysis.
- Support ADAS features such as:
 - Lane Departure Warning (LDW)
 - Lane Keep Assist (LKA)
 - Traffic Sign Recognition (TSR)
 - Surround View Monitoring (SVM)
 - Driver Monitoring Systems (DMS)
 - Automated Parking
- Work with OEM customers during integration, validation, and deployment activities.

Required Skills

Technical

- Video Pipeline Architecture
- Digital Image Processing
- Camera Systems & Optics
- Image Stabilization
- ISP (Image Signal Processing)
- Camera Calibration
- Image Quality Evaluation
- HDR, Exposure & White Balance Tuning
- Computer Vision Fundamentals

Tools

- OpenCV
- Python / C++
- MATLAB
- GStreamer
- CANoe / CANalyzer
- Image Analysis & Debugging Tools

Experience & Education

- Bachelor's/Master's Degree in Electronics, Computer Science, Image Processing, Optics, Automotive Engineering, or related field.
- 5+ years of experience in Automotive Camera, Vision Systems, or ADAS development.
- Experience in camera tuning, image quality, video processing, and vehicle validation activities.

Language

- Business English (Mandatory)
- Japanese (JLPT N4/N3) is added advantage

Work Location

- Japan (Customer Onsite)
- Customer-facing deployment and validation support role

Company Description