

CYIENT

ECU Development Engineer - Automotive Brake Systems

Job Information

Hiring Company

[Cyient K.K.](#)

Job ID

1567336

Industry

IT Consulting

Job Type

Permanent Full-time

Location

Kanagawa Prefecture, Yokohama-shi Totsuka-ku

Salary

Negotiable, based on experience ~ 7 million yen

Work Hours

In accordance with company regulations

Holidays

In accordance with company regulations

Refreshed

June 3rd, 2026 08:00

General Requirements

Minimum Experience Level

Over 1 year

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Daily Conversation

Minimum Education Level

High-School

Visa Status

Permission to work in Japan required

Job Description

«Job Description & Position Highlights»

- Development work encompassing brake ECU specification formulation through simulation development and performance evaluation
- Utilize MATLAB/Simulink to apply control theory and physics/mathematics knowledge at the actual hardware level
- Engage in algorithm development critical to vehicle control, gaining high expertise and a strong sense of accomplishment
- Deepening practical skills in control and ECU domains while collaborating with customers in the Hon-Atsugi area

【Job Responsibilities】

We are seeking an experienced ECU Development Engineer to lead the creation of design specifications, simulation evaluation software (using MATLAB/Simulink), and performance evaluation for automotive brake Electronic Control Units

(ECUs). This role requires a strong foundation in control systems, physics, and mathematics.

- Design Specification: Create detailed design specifications for the automotive brake ECU.
- Simulation Software: Develop simulation evaluation software, primarily using MATLAB and Simulink.
- Evaluation & Analysis: Conduct performance evaluations and summarize the results of the ECU development.
- Control System: Calculate PI control parameters and gains for the control system.
- Technical Knowledge: Apply control knowledge of hydraulic valves, motors, and other relevant components.
- Algorithm Development: Apply knowledge of physics and mathematics as algorithms are developed.

【Employment Type】

Full-time, Permanent Employee

【Salary】

Based on experience and skill level

【Working Hours】

In accordance with company regulations

【Work Location】

Customer (Moto-Atsugi)

【Holidays & Leave】

In accordance with company regulations

【Benefits & Welfare】

In accordance with company regulations

Required Skills**Qualifications****【Required】**

- Japanese Level: N3 and above
- Automotive ECU Experience: Experience developing chassis-related automotive ECUs (e.g., brakes, motor control).
- Control Theory: Ability to calculate PI control and gains.
- Component Knowledge: Control knowledge of hydraulic valves, motors, etc.
- Foundational Knowledge: Required knowledge of physics and mathematics for algorithm development.

【Preferred Experience】

- Embedded Software: Experience in embedded software development (creating design documents, coding, testing, etc.).
- Programming: Proficiency in C language.
- Modeling: Experience in developing MATLAB and Simulink models.
- Language: English proficiency.

Company Description