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
May 6th, 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