



Control Development Engineer

Job Information

Hiring Company

[ZAMA Japan Kabushiki Kaisha](#)

Subsidiary

ZAMA kabushiki Kaisha

Job ID

1571394

Division

Innovation / Pre-development

Industry

Machinery

Company Type

Small/Medium Company (300 employees or less) - International Company

Non-Japanese Ratio

Majority Japanese

Job Type

Permanent Full-time

Location

Iwate Prefecture, Hachimantai-shi

Train Description

Tohoku Line4, Koma Station

Salary

5 million yen ~ 8 million yen

Work Hours

フレックスタイム制 コアタイム10:00-15:00

Holidays

年間休日124日

Refreshed

January 28th, 2026 06:00

General Requirements

Minimum Experience Level

Over 6 years

Career Level

Mid Career

Minimum English Level

Business Level (Amount Used: English usage about 75%)

Minimum Japanese Level

Business Level

Other Language

Chinese (Cantonese)

Minimum Education Level

Bachelor's Degree

Visa Status

No permission to work in Japan required

Job Description**Job Summary**

As a **Control Development Engineer**, you will be responsible for developing and validating control systems for fuel management systems and electric motor products. You will collaborate closely with customers and application engineering teams to understand requirements and deliver robust solutions. You will take technical ownership of control functions, guide design decisions, and support the team from concept to production.

Responsibilities

- Lead the design and development of control algorithms for gasoline fuel injection systems and electric motor drives.
 - Define control concepts, system requirements, and control architecture.
 - Take technical ownership of control functions from concept through production.
 - Plan and lead calibration, tuning, and optimization activities.
 - Lead MIL, SIL, and HIL testing and support system integration on ECUs and equipment.
 - Analyze test data and drive performance, efficiency, and robustness improvements.
 - Support root cause analysis and technical problem solving.
 - Contribute to technical documentation and development standards.
 - Execute tasks in alignment with established engineering processes.
 - Implement departmental and management decisions and objectives.
 - Report on project progress and maintain schedules.
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Required Skills**Key Competencies/Skills**

- Strong expertise in control theory and practical control system design
- Extensive experience with MATLAB / Simulink / Simscape is a must
- Strong experience with dSPACE tools
- Advanced experience with model-based development
- Strong programming skills in C / C++, Python for data analysis, and others
- Proven experience with MIL / SIL / HIL testing and validation
- Strong knowledge of CAN / CAN FD, LIN, and XCP communication
- Ability to analyze complex data sets and drive design decisions
- Good to have knowledge of internal combustion engines, fuel supply systems and electric motor control
- Effective communicator, able to collaborate across departments, external partners, and customers.
- Strong self-management and organizational skills.

Qualifications and ExperienceGeneral

- Bachelor's or Master's degree in Control Engineering, Electrical Engineering, Mechanical Engineering, or a related field.
 - Minimum of 5 years of experience in control system development.
 - Experience leading control development activities and projects.
 - Comfortable working hands-on with hardware, test benches, and prototype equipment.
 - Ability to work independently and communicate complex findings clearly.
 - Experience collaborating with international teams and operating on a global scale.
 - Self-motivated learner, open to exploring new domains.
 - Strong ideation skills, with the ability to distill concepts into clear product or service propositions.
 - Willingness to travel internationally for business meetings and project collaboration.
 - Proficient in algorithmic, analytical, and organized approaches to problem-solving.
 - Strong grasp of the physical principles underlying mechanical and electromechanical systems.
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Company Description