Job Title: Product Engineer
Job Type: Full-Time, Exempt

**Overview:**

Nidec Drive Technology America Corporation is seeking a highly motivated Product Engineer with a focus on software development to join our dynamic engineering team. This role will involve working closely with cross-functional teams to design, develop, and maintain software solutions that support our product offerings in the drive technology sector. The ideal candidate will possess a strong foundation in engineering principles, combined with software development expertise, and a passion for problem-solving in a fast-paced, innovative environment.

**Key Responsibilities:**

* Design, develop, and implement software solutions for control systems, embedded systems, and user interfaces for Nidec’s drive products.
* Write clean, maintainable, and efficient code, adhering to software development best practices and coding standards.
* Collaborate with hardware and mechanical engineers to ensure seamless integration of software with product hardware.
* Support the creation and maintenance of software tools and automation for product testing, diagnostics, and deployment.
* Participate in the entire product lifecycle, from concept to production, ensuring that software development aligns with product design and customer specifications.
* Develop and maintain software documentation, including requirements, design specifications, and user manuals.
* Contribute to the development of system architecture, ensuring scalability, flexibility, and reliability of software components.
* Design and execute software tests, including unit, integration, and system-level testing.
* Troubleshoot and debug software issues, ensuring that the product meets the required quality standards.
* Work with the quality assurance team to develop software validation plans and ensure compliance with industry standards.
* Stay current with emerging technologies and industry trends, applying this knowledge to drive innovation within the product engineering team.
* Actively contribute to process improvements in software development, quality assurance, and product deployment.
* Work closely with other engineering teams, including electrical, mechanical, and manufacturing, to resolve technical issues and ensure product performance.
* Provide technical support and training to internal teams and customers as needed.
* Communicate software design and technical issues clearly to non-technical stakeholders.

**Qualifications:**

* Bachelor’s degree in computer science or a related field.
* 1-4 years of experience in software development, preferably within the industrial automation, drive technology, or related sectors.
* Experience with embedded systems programming, real-time operating systems (RTOS), and microcontroller-based systems.
* Proficiency in programming languages such as C/C++, Python, or Java.
* Familiarity with software development tools like Git, JIRA, and continuous integration/deployment systems.
* Knowledge of control systems, drive algorithms, and motor control software is a plus.
* Knowledge of AutoCAD, 3D modeling, ERP software, and Microsoft Office.
* Strong communication skills with the ability to present technical information clearly.
* Excellent organizational and time management skills.
* Ability to travel as needed for customer visits and meetings (up to 5%).
* Ability to effectively collaborate with our Japanese parent company. JLPT: N2 or more.