



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 (or equivalent Japanese skill).