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Title:

Software Engineer Position Description Template

OVERVIEW

A Software Engineer utilizes a variety of programming tools to develop safe, reliable and intuitive machine control system.

RESPONSIBILITIES

An effective Software Engineer shall:
1. Design and develop necessary software for successful project completion
2. Provide for smooth operation of company IT infrastructure
3. Insure long term viability of code base
4. Provide customers with the highest quality of products and services
5. Comply with established company standards

TASKS

1. Interface with customers and other project engineers to develop control sequences and scenarios
2. Develop device control code for PLC/Automation Controller
3. Develop automated sequences for PLC/Automation Controller
4. Design a "user friendly" HMI (Human Machine Interface) customized for specific machine hardware utilizing industry standard .NET framework
5. Develop or adapt communication scheme between machine components
6. Determine interlock and reactionary logic for safe operation of devices
7. Integrate and debug electrical and mechanical designs
8. Provide a troubleshooting framework
9. Provide required data acquisition and/or logging of machine state
10. Provide recipe capabilities as required by project scope
6. Research and specify control and communication hardware
11. Attend project meetings to discuss progress in each discipline
12. Provide required on-site support during installation of systems
13. Assist customers in solving problems in the field
14. Specify and deploy company computers
15. Install operating system and application software
16. Troubleshoot and replace company network and computer hardware
17. Develop necessary documentation for system deployment
18. Manage threats to productivity such as malware and data loss

EXPERIENCE/TRAITS

A Software Engineer will be expected to:
1. Demonstrate a proven track record for logic and developing software for complex systems
2. Possess a strong ability to "solve problems"
3. Possess excellent oral presentation and writing skills
4. Promote teamwork and cooperative effort
5. Maintain a clean, safe, and unobstructed work area
6. Understand and apply appropriate quality improvement processes
7. Report to work as scheduled

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V&N Advanced Automation Systems
Delivering Excellence From Concept To Completion

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EDUCATION

A Software Engineer shall have acquired one of the following as a minimum:
1. Bachelor of Science in Computer Science or an equivalent discipline
2. Associate Degree in Computer Science or an equivalent discipline and related work experience