DSE

Job Title: Software Engineer	**Location:** Hunmanby/ Mansfield
Department: Engineering	**Contract:** Permanent
Reports To: Software Engineering Supervisor	**Direct Reports:** N/A

1.0   Job Summary & Role

Working as an individual or as part of a team; the successful software engineer will be proficient with C#, preferably using .NET core/ .NET 6+ . A strong communicator, this software engineer will excel at requirements capture, design, development and verification.

.NET framework 4.5+ experience would also be of interest.

You will support a mixture of both R&D and product development tasks within the Engineering department of one of the world's top industrial control systems manufacturers. The successful software engineer will be a highly adaptable individual with a strong aptitude for learning the existing toolsets.

The company's products operate in the energy control and automation markets and are designed to provide energy throughout a wide range of forms such as generator sets, renewables, microgrid as well as off-highway machinery.

The successful software engineer will be keen to be involved in all development areas, you should have a proven track record in both problem solving and standards compliant, quality focused software development.

You will be required to follow all existing processes and working practices, contributing suggestions to their improvement.

Working as part of a multidisciplinary team, the successful software engineer will have good communication skills and a can-do attitude. A genuine passion for innovative technology will be advantageous. This opportunity will enable the successful candidate to gain valuable knowledge of industrial controls and best design practices.

2.0   Key Responsibilities & Main Duties

- The design and implementation of software in C# using .NET core/ .NET 6+
- Follow a full SDLC, developing PC based applications for new and existing products
- Ensure software reliability, standards, safety and security objectives are all met
- Diligent use of the company version control systems, demonstrating excellent version control discipline
- Support software deliveries through test, production and commercial deployment
- Responsible for the delivery of all SDLC technical deliveries both software and documentation

- Write and maintain development documentation including specifications, requirements, test plans and design descriptions
- Review software and designs with regards to coding standards and best practice
- Support the Embedded team during design and development.

3.0   Internal & External Relationships

The software engineer will work closely with both internal and external customers including but not limited to Engineering management, Test and Approvals, Technical support and commercial sales.

The software engineer will be required to periodically visit alternate business sites for training, information transfer and team cohesion. There may also on occasion be a requirement to visit customer sites.

4.0   Key Performance Indicators

- Ability to work both individually or as part of a team
- The proficient design and implementation of software in C# using NET core/ .NET 6+
- The self-discipline required for testing and delivering coding standard compliant software
- Produce clear and concise software documentation
- High quality, best practice software development with strong version control discipline
- Ability to work to timescales and deliver the software of the expected quality on time

5.0   Essential/Desirable Factors

Knowledge	
Essential:	**Desirable:**
- Expert in C# .NET core/ .NET 6+ .NET framework 4.5+ (considered) - Stage gated development approaches - Strong version control discipline - Comfortable collaborating closely with embedded systems engineers - Individual task and Epic management in Jira - Solid understanding of ModBUS protocol over TCP/IP and RS485	- Background in electrical systems, knowledge of the power generation industry - UI development using Winforms or WPF - Working knowledge of data format types for example JSON, XML, etx - Git workflows
Skills & Attributes	
Essential:	**Desirable:**
- Good Object Orientated design skills - Enthusiastic and optimistic	Android and iOS applications development

• Ability to translate requirements into a technical product specifications • Accustomed to breaking down tasks for more accurate estimates of effort • Used to work in a high-pace environment • Excellent team player with collaborative problem solving and trouble-shooting capabilities	

Experience	
Essential: • Experience with multiple programming languages in a commercial engineering department • Previous experiences of controls and automation software development.	**Desirable:** • Experience managing CI/CD platforms e.g. GitHub Actions, GitLab CI, Azure Pipelines • Experience developing in C++ • Experience creating Windows software installers

Qualifications	
Essential: • Bachelor of Science in IT/Software Engineering or equivalent	**Desirable:** • Masters of Science

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