Software Engineer

About Us

Halma Water Management (HWM) is a group of successful water conservation companies who have joined forces under a single sales, design and distribution network to manufacture and supply flow measurement, data logging, and leak detection solutions for the water industry. Our extensive experience and unrivalled innovation has made us a world leading team with an international reputation for technology, quality and service. Together, we provide an unparalleled range of products and services for the water industry.

We are proud to be part of Halma, a major worldwide technology group making safety products and products that improve quality of life. As an integral part of the Halma Group plc, Halma Water Management has the strength and credibility of a FTSE 100 plc Company with the financial resources to match.

Halma has been trading for over a century and has a level of corporate pride second to none. Their customers range from small enterprises through to some of the largest companies in the world, and they export products globally, currently to over 50 countries.

Job Purpose

The Head of Production and Service is responsible for leading and overseeing the organisation's production and service delivery functions to ensure effective and efficient business processes across all elements of the HWM Global business including Contract Manufacturing Organisations (CMOs).

The products being tested are primarily dataloggers, which are used in the water network to monitor parameters such as water pressure and flow rate and transmit this data back to a central server.

We are looking for a candidate with an enthusiastic and determined approach who will bring further energy to our drive towards excellence.

Main Responsibilities

Software Development
- Design, development, and commissioning of functional test software for new products. The development language will be C# using the MS-Visual Studio platform.

- Knowledge of Delphi required for legacy products.

- Design, code, test, and deploy software solutions that improve manufacturing processes, efficiency, and automation.

- Develop and maintain software applications that may include production planning, quality control, inventory management, and process optimisation systems.

- Maintenance and support of legacy test software.

Hardware Development
- Design and configuration of accompanying test hardware.

- Maintenance / repair of existing test fixtures OEM and CEM sites.

Collaboration with Manufacturing Teams
- Work closely with manufacturing engineers, operations, and other stakeholders to understand software needs and requirements.

- Collaborate on the design and implementation of software solutions that address specific manufacturing challenges.

- Work effectively in the Production Engineering team and with other disciplines and participate in all facets of New Product Introduction (NPI).

- To report periodically at design review and Program Meetings on development progress.

Integration with Manufacturing Systems
- Integrate software solutions with existing manufacturing systems, equipment, and databases.

- Ensure seamless communication and data exchange between different components of the manufacturing environment.

Quality Assurance
- Implement testing procedures to ensure the reliability, security, and performance of software applications.

- Conduct thorough testing and debugging to identify and resolve software defects.

Documentation
- Create and maintain comprehensive documentation for software applications, including technical specifications, user manuals, and system architecture.

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Continuous Improvement
- Stay informed about advancements in software development and manufacturing technologies.

- Identify opportunities for continuous improvement in software applications to enhance manufacturing processes.

Collaboration with IT Team
- Work with IT teams to ensure that software solutions align with overall IT architecture and security standards.

- Collaborate on the deployment and maintenance of software applications.

User Training and Support
- Provide training to end-users on new software applications.

- Offer technical support and troubleshooting assistance for software-related issues.

Data Analysis
- Develop tools for data analysis to extract actionable insights from manufacturing data.

- Collaborate with data scientists and analysts to optimise manufacturing processes based on data-driven decisions.

The above is not an exhaustive list of duties and you will be expected to perform different tasks as necessitated by your changing role within the Company and its overall business objectives.

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Personal Specification

- The candidate will have at least 3 years' experience working as a Software or Test Development Engineer in a similar environment, using C# / C++. Knowledge of electronic hardware would be advantageous.

- Will have the ability to communicate with the wider manufacturing group daily and introduce their software into manufacturing processes and with suppliers.

- An independent thinker, taking concepts and offering and developing solutions. This is an interactive hands-on role.

- Strong leadership presence and the ability to influence and inspire others.

- Resilience and the ability to handle pressure and challenging situations.

- Proactive and forward-thinking mindset with a focus on anticipating and mitigating potential risks.

- Strong attention to detail and a commitment to delivering high-quality work.

- Strong problem-solving and decision-making skills.

- Adaptability and openness to change.

- Excellent organisational and time management skills.

Qualifications/Training

- Bachelor's degree in computer science, software engineering, or a related field.

- Proven experience in software development, with a focus on applications for manufacturing environments.

- Proficiency in programming languages such as Java, C#, C++, Python, or others relevant to manufacturing systems.

- Knowledge of Delphi would be advantageous.

- Familiarity with databases, data structures, and system integration.

- Strong problem-solving and analytical skills.

- Excellent communication and collaboration abilities.

- Knowledge of manufacturing processes and systems.

- Familiarity with Agile development methodologies.

- Ability to work independently and as part of a cross-functional team.

How to Apply

To apply for this vacancy please contact hr@hwm-water.com, sending your CV along with a covering letter stating why you feel you are particularly suited to this role.

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