HWM-Water Ltd
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PRODUCT SOFTWARE DEVELOPMENT MANAGER VACANCY

Halma Water Management (HWM), a division of Halma PLC, provides customers with the ability to manage their water, gas and electricity networks remotely, by providing remote data acquisition products and services. HWM designs and manufacture of products for remote acquisition, transmission by GPRS, IP and radio, aggregation on cloud systems and delivery of data relating to

- Performance of clean/waste water networks monitoring flow, pressure & quality (chlorine pH, temperature etc.)
- Consumption of water, electricity and gas for commercial metering applications.
- Detection of possible leaks in distribution systems and products for precise location of leaks utilising DSP technology.

Due to expansion of HWMs business into new territories and into new sectors such as waste water, environmental and gas monitoring, the position of software manager is to be created to oversee the development of product software and firmware.

SPECIFIC RESPONSIBILITIES:

1. To manage the delivery and maintenance of embedded firmware for all HWM products.
2. To manage the delivery and maintenance of PC and mobile application software used for the installation of HWM products.
3. To act as lead software architect for new developments, defining the software structure, development tools, methods and testing strategy in consultation with the Technical Director.
4. To agree priorities with the Technical Director and Project Manager(s), maintenance of issues lists and allocation of software development resources as required.
5. To ensure that good practices such as coding standards, code audits, testing and use of standard tools and methods are followed throughout all software development activities.
6. To maintain a culture of technology and code reuse in the software development process.
7. To mentor junior members of the software development team as required. Contribute to staff performance reviews and identify training requirements.
8. To lead technological development and upskilling of the team in the use of new technologies. To influence the choice of tools and methods to ensure that software development activities constantly benefit from the application of modern approaches.
9. To consult with internal and external stakeholders in establishing and documenting product and interface software requirements.
10. To report at project review meetings on development progress, detailing clearly any variances in time-scales, performance or costs.
11. To liaise with external software suppliers and consultants on software design, covering documentation, test specifications and consistent quality standards.

VAT Registration No. 373 1763 46
ISO 9001:2008   ISO 14001:2004
Registered in England.
Registration No. 01463016

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12. To support application field trials and issue resolution, both domestic and overseas. In order to perform this role, occasional international travel may be required.
13. To liaise with the Cloud Systems Development Manager to agree interfacing and interoperability operability requirements, and in issue resolution.

Desired Skills and Experience

Essential skills/experience:

1. Experience with embedded OS, and bare metal software development, preferably using ARM, AVR, PIC or MSP430.
2. Experience in electronics hardware development.
3. Application development on Windows platform using C++ or C#.
4. Experience of distributed processing systems over IP.
5. Strong understanding of communications protocols (TCP/IP, I2C, MODBUS, SDI12 etc.)
6. Previous successful experience leading a team in both new product development and maintenance projects.
7. Strong experience in an agile environment with frequently changing requirements and priorities.
8. Proven track record in problem solving with clear thinking.
9. Proven experience in dealing with both internal and external stakeholders.

Desirable skills/experience:

1. Experience in design of software for safety critical related systems.
2. Experience in design and production of software for control and automation systems.
3. SQL Database design & implementation.
4. Degree in Software Engineering or Computer Science.
5. Excellent communication and report writing skills.
6. Experience of Android/iOS application development.
7. Experience of DSP technology including algorithm development.
8. Experience of artificial intelligence or machine learning systems.

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