Lead Embedded Software Engineer - IoT Platforms

At SANDT, we specialize in bridging the gap between IT and OT through cutting-edge technological solutions. We are seeking a Lead Embedded Software Engineer with a strong focus on hands-on software development for IoT-compatible platforms. The successful candidate will play a pivotal role in the design, development, and optimization of embedded software solutions tailored for IoT devices and systems.

Key Responsibilities:

IoT Embedded Software Development:
- Design, develop, and optimize embedded software tailored for various IoT platforms and devices.
- Ensure that the software is efficient, scalable, and adheres to best practices for IoT systems.
- Debug and resolve software defects and issues specific to IoT platforms.

Integration with IT/OT Systems:
- Collaborate with IT/OT specialists to ensure seamless integration of embedded software with IT and OT systems.
- Engage with external partners and vendors to ensure compatibility and integration of IoT solutions.

Code Review & Quality Assurance:
- Conduct regular code reviews to ensure code quality, security, and maintainability, especially considering the unique challenges of IoT devices.
- Collaborate with the QA team to ensure thorough testing and quality assurance of embedded software for IoT.

Documentation:
- Document software design, development processes, and user manuals specific to IoT platforms.
- Ensure comprehensive documentation for all developed embedded software solutions.

Team Collaboration:
- Work closely with the embedded software engineering team, providing guidance and mentorship.
- Coordinate with other departments to align embedded software development with company objectives.

Technical Knowledge & Tools:

- IoT Platforms: Proficiency in popular IoT platforms such as AWS IoT, Azure IoT Hub, Google Cloud IoT, etc.
- Programming Languages: Expertise in C, C++, and other embedded programming languages suitable for IoT.
- RTOS: Experience with Real-Time Operating Systems (RTOS) tailored for IoT devices.
- Microcontrollers & Processors: Familiarity with popular microcontrollers and processors used in IoT devices, such as ESP32, ARM Cortex, etc.
- Development Tools: Mastery of embedded development tools tailored for IoT, such as PlatformIO, Mbed, etc.
- Version Control: Experience with Git or similar version control systems.

Qualifications:

- Bachelor's or Master's degree in Electronics Engineering, Computer Science, or a related technical field.
- Proven hands-on experience in embedded software development for IoT platforms and devices.
- Strong understanding of IT/OT systems and their integration challenges in the context of IoT.

Personal Attributes:

- Strong analytical and problem-solving abilities.
- Detail-oriented with a passion for software development for IoT platforms.
- Excellent communication skills, both written and verbal.
- Fluent in Dutch, French and English.