Software Development Engineer

<u>COMPANY</u>

LMS, the leading partner in test and mechatronic simulation in the automotive, aero- space and other advanced manufacturing industries, helps customers get better products to market faster. With a unique combination of mechatronic simulation software, testing systems and engineering services, LMS tunes into mission critical engineering attributes, ranging from system dynamics, structural integrity and sound quality to durability, safety and power consumption. With multi-domain and mechatronic simulation solutions, LMS addresses complex engineering challenges associated with intelligent system design and model-based systems engineering. More than 1250 LMS professionals serve over 5,000 manufacturing companies worldwide.

<u>FUNCTION</u>

The software development engineer will be member of the team responsible for design and development of a novel series of applications for data acquisition. This team also takes responsibility for the integration of external data acquisition hardware into a series of other data acquisition products in the Test.Lab MarkII application family.

In this area, focus is on acquisition reliability, real-time behavior and data transfer performance. Your team takes responsibility for an application range dealing with high-performance continuous data recording, but also provide integration support for other application families, dealing with structural and acoustic testing, environmental testing and testing on rotating structures.

Responsibilities:

- Responsibility for the design, development and maintenance of the integration of external data acquisition hardware
    - Built integration facilities on a driver layer from LMS Instruments Breda
    - the integration layer needs to suit an entire set of LMS Test data acquisition products
    - Provides support for both single and distributed external hardware
    - Integrate a wide variety of signal conditioning modules, and external data streams
    - Guaranteed quality-of-service for data acquisition
    - Focus on highest possible data throughput performance and reliability, with minimal system load
- Responsibility for the design, development and maintenance of a kernel application for Continuous Data Recording
    - Design and development of an application to stream recorded application to disc
    - Optimize design and development to make sure the application itself is no bottleneck in overall system performance
    - Kernel application can be integrated in future general-purpose data acquisition applications

PROFILE

- **Educational Level:** Degree in Informatics or Physics, Engineering Degree
- **Experience:**
  - Proven experience in design and analysis skills
  - Affinity with external data acquisition systems
  - Knowledge about programming consequences for (near) real-time systems
  - Experience with low-level data handling in Windows O/S systems
- **Specific technical competencies:**
  - Expertise in software design and architecture
  - Proven skills in C++, OO development methodology and UML
  - Knowledgeable about concepts of Windows Drivers, Services
  - Languages: good knowledge of English (both written and spoken),
- **Specific personal competencies:**
  - Analytical mind, solution oriented
  - Stress tolerant
  - Creative
  - Quality-awareness
  - Customer oriented attitude
  - High interest in ICT evolution (literature, …)
  - Team spirit and flexibility

CONDITIONS

We offer, besides an attractive salary and benefits package, an internationally oriented and innovative high-tech environment.

LMS is a fast growing, yet financially healthy company with a flat structure and an informal, flexible atmosphere. People working within the company say they get a lot of room for initiative and career development.

LMS is driven by innovation, and therefore fosters the creativity of its employees. LMS provides continuous training and competence development, stimulating personal development with respect to technical and/or management skills.

CONTACT

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