

Job position: DSP R&D Engineer

Hammer-IMS is a young, innovative and growing company. Hammer-IMS supplies highly-accurate and contactless measurement system, mostly based on our unique and in-house developed M-Ray technology. Typical applications are material characterization of plastic, paper, foams, textiles and nonwovens during production. The market for these kind of applications is currently dominated by nuclear and single point sensing techniques. Our best-selling solutions, the Marveloc-CURTAIN measuring systems, are a sustainable alternative to these nuclear harmful technologies. On top of that, it enables multipoint measuring in a very efficient and cost-effective way. Hammer-IMS was founded in the beginning of 2016 and is in search for people to broaden and strengthen its team.

Hammer-IMS is currently developing new high-frequency measuring technology and is in search for a signal processing engineer with a sufficient background in C++ programming and notions of artificial intelligence.

Profile

Master in engineering (ing. or ir.) specialized in any field where algorithm/model design and programming have been part of previous education or a previous job.

Job experience is not a must, although experience in the machine-building industry is an advantage.

Thorough knowledge of C++ programming principles. This requires insights in memory (de)allocation principles, object lifetime, multi-threading...

Experience with the Linux operating system is an advantage.

Notions on convolutional neural networks, training and inference of them is an advantage.

Experience with at least one of the following embedded platforms: Raspberry PI, FPGA, Arduino, PLC.

Skills to study the physical principles in a field (mechanics (fluid-mechanics, statics, dynamics), electromagnetics, electronics, thermodynamics...) and create a mathematical, runnable model of a real-world situation in that field in a high-level modeling language such as MATLAB, Python or alike. Skills to adopt/create and tune an algorithm to interact with this model. Skills to translate this algorithm into an efficiently-running C++ application.

Hands-on and flexible.

The knowledge of English is a must. Knowledge of any additional languages is advantageous.

Prepared to work in a young and passionate team.

Your mission at Hammer-IMS

We offer a job in an ambitious start-up. You will not only be a valuable employee of the company, but you will also build on the company from the early days together with the other Hammer-IMS team members. It is a challenging job with many opportunities towards the future as the company has a clear vision on growth. Flexible working hours and a flexible and exciting job content will be the result of working in this young company.

You will be working on the development of new measuring technology and translation of it into pilot applications with real customers. The technology itself will be our next-generation M-Ray technology and vision technology. The development of our next-generation M-Ray technology has been road

mapped in 2020 and funding has been obtained from the Flemish VLAIO governmental department. This means we have clear targets where our technology will be at in a few years from now. You will be working as part of the R&D department during this project.

Apart from the development of the new measuring technology we would like to give you hands-on experience in the fields where we deliver our measuring solutions. Not only while testing your new developments in a real-life situation, but also when Hammer-IMS as a company is executing commercial projects with customers. Therefore, you will from-time-to-time be taking care of new software features or PLC program features when requested by customers. This enables us to push the value-proposition of our existing set of products in their respective markets. In the same philosophy, you will be given the opportunity to take part of the commissioning of new, and sometimes complex, machines in the field. This means you can deal with having to stay abroad for shorter periods, (not covering more than 10 percent of your time at Hammer-IMS).

You will be working at our facilities in Hasselt and will report directly to the management of Hammer-IMS.

Contact

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