Embedded Software Engineer (Algorithm Developer)

Datamars is a global leader in delivering integrated product solutions in livestock management, animal health delivery, pet identification and reunification and textile identification.

As a global company, we are also proudly local. You'll find the nearly 2000 members of the Datamars family across 28 sites worldwide, including the Americas, Europe and Asia Pacific.
We are a private company, founded in 1988 and headquartered in Lamone, Switzerland. For more information, please visit www.datamars.com.
As a diverse, vertically integrated company, we offer career opportunities in a variety of professions and sectors across the globe. Our business and our ability to deliver superior customer value relies on your unique talents and no matter what role you perform; everyone plays a part in our success and our purpose – to make a measurable difference.

We at Datamars are fulfilling our purpose by harnessing the power of data to measurably improve productivity and quality of life.
Our people, our legacy strength in technology, our closeness to customers and our quality products helps drive our success as we work towards an exciting, sustainable future.

We are searching for an **Embedded Software Engineer (Algorithm Developer)** for our Research&Development team based in Lamone, Switzerland. Are you ready to join our team?

KEY RESPONSIBILITIES
Within the R&D Department in Datamars' HQ, the Embedded Software Engineer will be responsible for the design, implementation and life-cycle-management of all Embedded Software projects managed by Datamars Switzerland, from planning to roll-out as well as involved on Digital Signal Processing activities into the evolving algorithm development tasks owned by the team.

MAIN DUTIES
- Develop and maintain embedded firmware application for our products.
- Design, implement and validate edge computing for local/distributed algorithms (dynamic weights, animals behaviors, sensors measurement and others).
- Application level programming of RFID systems, weighing indicators, IoT devices or other products in the portfolio.

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- Test Firmware using debuggers, emulators, simulators and logic analyzers
- Design/test algorithms both on workstations and on the device itself as emulation and/or field trials.
- Coordinate and manage tasks around real-time programming and algorithms development/validation.
- Investigate on quality issues and non-conformities.
- Support Product management and if needed talk directly with customers on their needs.

REQUIREMENTS

- BSc or MSc in Electrical Engineering, Computer Engineering, Computer Science, or equivalent.
- Working experience within a technical position.
- Good understanding of real time operating systems, concept, design, and patterns.
- Experience on MATLAB or equivalent algorithm development tools (Jupyter, Python, Octave and others).
- Experience in Testing and Firmware quality assurance including real time debugging.
- Knowledge of digital electronics, ideally STM32 microprocessor family.
- Good knowledge of common wireless communications protocols, such as Wi-Fi, BLE, BT classic is a plus.
- Good communication skills, team player, proactive, experienced in leading projects.
- Knowledge of IoT technologies, low power network and low power devices is a plus.
- Experience on RFID protocols and especially UHF is a plus.
- Excellent English, written and spoken.
- Willingness to travel occasionally.

WE OFFER

- Possibility to develop competencies in product development and project management in an international company with leadership position in key markets.
- Possibility to work on cutting edge IoT projects, focusing on edge computing for algorithms.
- A dynamic and young work environment in a fast-growing technology company with growing markets providing new solutions to open new markets.

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Does this position meet your interest, and do you have the requested skills? Then please send your application (in English) with motivation letter and CV to **recruiting@datamars.com**. Mention your name and "**Embedded Software Engineer (Algorithm Developer)"** in the subject line.

Applications that do not fulfill the requirements will not be considered for the selection.

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