

# Firmware Development Engineer - Sensors

Ref. FDE\_SE\_IT\_2609

Location: Lainate (MI), Italy



## About the job

Do you want to help build tomorrow's world? Welcome to Carlo Gavazzi, where we are designing, manufacturing, and marketing electronic equipment. Our Group's products ( sensors, solid-state relays, energy meters and analyzers, IoT energy management systems, monitoring relays, soft starters, timers, power supplies, and safety devices) provide automation solutions for the global markets of industrial and building automation across Europe, the Americas and Asia-Pacific through a network of 23 own sales companies and through more than 60 independent national distributors.

Are you passionate about writing C code that brings products to life, and find it exciting to define new architecture? Then you can have a day in a versatile development team at Carlo Gavazzi.

We design, manufacture and market sensors for the industrial automation industry; challenging applications like automation and protection of automatic doors, gates and accesses are currently being tackled with the development of the next generation of intelligent sensors.

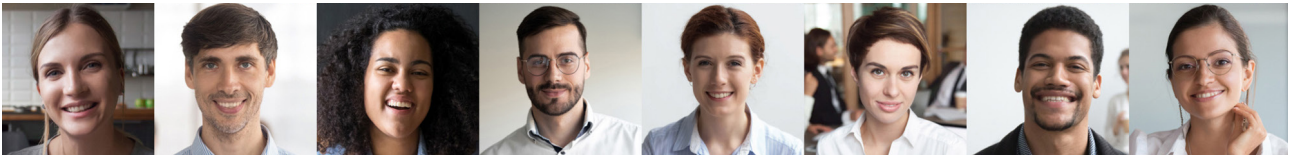
You will contribute to the development of the next generation of intelligent sensors, combining advanced sensing technologies with Embedded AI and Machine Learning capabilities deployed directly at the edge. As a **Firmware Development Engineer - Sensors**, you will work within the project team on new developments from A to Z, as member of an international team and in strong cooperation with our Competence Center in Denmark.

## What does this mean?

Your task will be to design structured embedded software for our sensors. You will work in an interdisciplinary team developing innovative sensing solutions across multiple technologies, including Time-of-Flight (ToF)/LiDAR, photoelectric and capacitive sensing. Your tasks are primarily coding and establishing optimal software architecture, where you can simultaneously help expand our software toolchain.

Your task will include:

- Embedded software development, primarily in C for 32-bit ARM
- Development and optimization of intelligent sensing algorithms, including AI and Machine Learning-based solutions, for embedded sensor platforms
- Helping to further develop our software architecture
- Taking a driving role in expanding our software toolchain
- Collaboration with hardware designers on system design and optimization
- Actively participating in all project phases: specification, design, implementation, testing and debugging
- Collaboration with Product Management on determining product requirements to ensure an optimal technical solution



## Requirements and qualifications

Sounds great! Am I the **Firmware Development Engineer** you are looking for? Let's see:

- You are a qualified engineer with at least 3 years of experience in firmware design
- You are strong in C programming, and you have delivered software projects that are now running in the market
- You have interest and experience in projects with the implementation of structured software architecture
- You are interested in the borderland between software and hardware, as well as knowledge of different microprocessor types, typically 32-bit ARM
- You have knowledge of, and/or interest in, other high-level coding languages, platforms, etc. e.g. Python, Linux, C#, Android, App development or similar
- You have knowledge of implementing communication protocols, among others IO Link, Zigbee, MODBUS and dedicated industrial networks
- You speak and write both Italian and English fluently, as we are part of an international group
- You are a team player, motivated and thrive in a dynamic environment
- You dare to take the lead and focus on the goal, so that we complete the projects to the delight of our customers

## Why should you apply?

- You will be joining an international team of enthusiastic and passionate colleagues.
- You will be working on the design and development of truly unique products, end-to-end. Yes, you can be an inventor! There is nothing more thrilling than seeing your work out there on the market.
- Carlo Gavazzi is a fast-growing company, so you can grow with us and grow in your area of expertise or interest.

And yes, Carlo Gavazzi is an award-winning company! We want to excel in what we do, it's no walk in the park but our hard work pays off.

## Compensation

The minimum gross annual salary for this position is €35,000, to be defined based on the candidate's experience, skills, and qualifications.

## Interested in finding out more?

Please send your CV to **GlobalTalent@carlogavazzi.ch** indicating the role as reference subject if you are interested in!

Browse our website ([www.gavazziautomation.com](http://www.gavazziautomation.com)) or visit our [LinkedIn page](#)

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