

Embedded Software Engineer

PhotonFirst Alkmaar, Noord-Holland, The Netherlands (Hybride)

Join the pioneers of PhotonFirst

PhotonFirst (formerly part of Technobis) is an ambitious, high-tech company active in photonics-based sensing. We research, design, develop and supply advanced photonic measuring equipment for, for example, the renewable energy sector, the medical sector, security, and defense as well as applications in infrastructure. For our products, we use state-of-the-art technology from the field of integrated photonics, so-called PICs (photonic integrated circuits), to integrate the optical functions of the measurement system onto a small footprint, and thus be able to make and deliver products that are scalable, robust, and cheaper than ever before. This creates numerous improved and novel applications where our systems give customers insight into their measurement needs.

You own the system design and assure requirements compliance

Do you get excited to use your software expertise in an entrepreneurial, deep-tech environment? As an Embedded Software Engineer at PhotonFirst, you will be part of our highly skilled and enthusiastic R&D team, working at the forefront of integrated photonics sensing technology. As a Embedded Software Engineer, you are the key player in the development and maintenance of our product software. From understanding and interfacing embedded product software, to enabling the user interface applications, based on APIs for customers and our internal production personnel (calibration, automation and maintenance SW). You will work closely together, both internally with engineers of other disciplines, as well as external in co-development with the software engineers of our suppliers and partners. In this way you get to experience where your developments come to use and take the learnings to continuously improve our offering towards our customers.

In this role you...

- Take the lead in the design and realization of software as vital part to our products and solutions, from the product embedded side to the user interface (full-stack)
- Define, structure and review code according to good practices and applying revision control
- You can work independently and in teams, and are pro-active in your work

Education

University (WO) or University of Applied Science (HBO) degree in Systems-, Software Engineering / Informatics with at least 3 years of relevant work experience.

We are looking for the following knowledge and experience:

- Program/ Software knowledge: (embedded) C, C++, Python).
- Good practice of documentation: code clarity and commenting, version control (GIT) and DEVOPS.
- You have affinity with user interfaces (GUI), Linux kernels, and development of APIs to support customer system integrations.
- Excellent communicator in English, both verbally, in writing and presenting.

We would be thrilled if you also bring...

- Affinity with embedded software, firmware and common industrial interface design and protocols (back-end)
- Understanding of software development according to regulatory standards, e.g. ISO 9001, IEC 62304
- Experience with engineering languages and SW tools as Matlab, MS Azure, Docker

Personality characteristics

PhotonFirst is a young and maturing professional organization. We have developed a strong pragmatic team mentality in which we work and experiment together to achieve common goals. We are looking for a wide diversity of people coming from different backgrounds to join our organization. We have formulated the following personal traits contributing to our professional mentality:

- Passionate team player taking ownership
- Open, straight, result driven and can-do mentality
- Pioneering, creative, flexible, and entrepreneurial
- Perseverant, professional, and well structured
- Friendly & 'fun to work with'

Inquiry/ application

Should you have any questions about the role, the team or PhotonFirst, don't hesitate to contact Thijs van Leest (Director R&D) or Sjoukje Blom (HR) via +31 85 0076700.