

System Engineer (32-40hrs)

Join the pioneers of PhotonFirst

Since 2006 PhotonFirst (formerly Technobis) is pioneering in the research, development, engineering and production of Integrated Photonics Sensing modules and systems for a broad range of critical applications in aerospace, medical equipment, mobility, energy, and high-tech systems. Since January 1st, 2021, the photonics activities have been carved out to prepare for a fast growth to a leading worldwide position in its field, supported by our main shareholder Active Capital Company (PE). PhotonFirst is an innovative, pioneering company in integrated photonic sensing, with a technology that is unlocking the power of the photon in a wide range of applications.

You own the system design and assure requirements compliance

You will be part of our highly skilled and enthusiastic Development & Engineering team, working at the forefront of integrated photonics sensing technology. As a System Engineer, you are the key player in the entire development trajectory, from start to end. You gain in-depth knowledge of all PhotonFirst hardware and software products. You have the ability to translate technology roadmap topics combined with user application needs into innovative and efficient system architectures. You understand the individual building blocks our systems consist of, and you're proficient in reconfiguring the electrical and optical interfaces in order to come to new solutions. You take ownership of requirements traceability and compliance management.

The development and engineering team works hand-in-hand with the research and application development teams to come to an innovative and high-quality solution for the end-customer. Your role in this deep-tech environment will consist of:

- Taking the lead in design of comprehensive system and component architectures and guiding the development teams to come to a complete solution for our customer.
- Understanding of and contributing to the technology roadmap and integrating new technologies into ongoing developments.
- Assisting the Application Development Engineer in translating user application needs to comprehensive system requirements, using your strong analytical skills.
- The ability to build and maintain effective networks across the community including customer and/or supplier liaison experience for technical aspects, verifying and obtaining agreement that customer needs are satisfied.
- Writing and reviewing of technical product documentation and qualification plans.
- Assuring requirements traceability through the entire development process, from specification to qualification whilst making use of best practice systems lifecycle processes alongside techniques such as Learn First and Agile
- In line with our DNA, you like a challenge and use your creativity to come to an innovative design, from an early concept to an industrial solution.

Direct reporting line

The System Engineer reports to the Team Lead Development & Engineering.

Education

- University (WO) or University of Applied Science (HBO) degree in Systems-, Mechanical-, Electrical- or Aerospace Engineering, or Informatics.

Experience/skills

- You are an assertive team player, and take ownership of projects assigned to you.
- You have 5 or more years of experience as a System Engineer, Architect or Lead Development Engineer.
- Proven experience developing systems in relevant integrated photonics sensing product markets and/or domains, such as control systems, real time displays or other safety related systems, containing multiple technical disciplines such as electronics, mechanics, optics and/or software.
- The ability to work with little guidance and make sound strategic decisions whilst collaborating to ensure the team understands, co-operates and supports those decisions, taking responsibility for collaborative technical work package execution and associated outcomes.
- You have experience with design of electronics (PCBAs).
- You have affinity with embedded electronics and interface design.
- You have experience with a professional quality management system: structured system development according to a process, document revision control, requirements traceability and compliance management.
- Excellent communicator in English, both verbally, in writing and presenting.
- Proficiency in Microsoft Office (PowerPoint, Word, Excel).

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- Experience with (optical) physics.
- Experience with PCBA design for embedded electronics

Availability

Since this is a new job in a fast-growing company, we prefer a full-time commitment but 32 hours is an option. You work from our Alkmaar headquarters .

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 Wessel van Haarlem (Team Lead Development & Engineering) or Christel Rep (HR&O Recruitment Advisor a.i.) via +31 85 0076700.