

## System Architect (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. 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.

### Your tasks & responsibilities are broad

You will be part of our highly skilled and enthusiastic product development team, working at the forefront of technology. As a System Architect, you are the key player in the entire development trajectory, from start to end. You have 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 are proficient in reconfiguring the electrical and optical interfaces in order to come to new solutions.

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.
- Writing and reviewing of technical product documentation.
- 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 Architect 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 architect or lead development engineer.
- You have affinity with (embedded) electronics and interface design.
- Analytically skilled, you have the ability to translate complex requirements into a system design.
- You have experience with a professional quality management system: structured system development according to a process, document revision control, reviews and release control.
- Knowledge of documentation: requirements, system design descriptions, risk analysis, validation test plans.
- Excellent communicator in English, both verbally, in writing and presenting.
- Proficiency in Microsoft Office (PowerPoint, Word, Excel).

**Pré**

- Knowledge of electronics design.
- Knowledge of software design and/or development (C, C++, python).
- Affinity with (optical) physics.
- Experience with Microsoft Azure boards.

**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 Sjoukje Blom (HR&O Manager) via +31 85 0076700.