



To Photonics21 Secretariat  
via eMail: [secretariat@photonics21.org](mailto:secretariat@photonics21.org)

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate  
SMART Photonics B.V. / Luc Augustin.

**- Letter of Nomination -  
Photonics21 Board of Stakeholders  
Election 2024**

## Photonics21 Board of Stakeholders - Letter of Nomination

### 1. Full legal name of the affiliation nominated as BoS Member (candidate's organisation):

SMART Photonics B.V.

### 2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address *(In accordance with the Terms of Reference §5, which the Affiliation acknowledges having received, an Annual Service fee will be invoiced every year during the first quarter to the BoS Member. By signing the present letter, the BoS candidate agrees to pay this Membership Fee. The Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12b).)*

High Tech Campus 37  
5656 AE Eindhoven  
The Netherlands

### 3. Name of the suggested BoS Representative (the personal candidate)

Luc Augustin

### 4. Information about the BoS candidate and the BoS representative

#### a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidate's organisation) will bring to the BoS<sup>1</sup>

SMART Photonics B.V. is a pure-play foundry for InP photonics semiconductors. The company started in March 2012 and is located in Eindhoven, The Netherlands.

It offers its customers an expert team with long history and proven track record in InP Research, Development and production. The team has a broad experience in epitaxy (growth and regrowth), processing, test & measurement and quality control. SMART Photonics offers a generic integration process, developed in collaboration with the TU Eindhoven. SMART Photonics is the world's first foundry to offer open-access MPW services for InP based integrated circuits. The company's uniqueness lies in the fact that it combines a pure-play foundry approach, a dedicated photonics cleanroom for InP semiconductors, an experienced engineering team, and a generic process with a Process Design Kit, in which customers can design based on functional building blocks, rather than technological steps. SMART Photonics has their own production facility for InP PICs including multi-wafer MOVPE epitaxy, high resolution scanner and stepper lithography, etching, in-line monitoring and test tools.

Next to our monolithic platform on InP we are a strong advocate for heterogeneous integration of InP with Silicon and Silicon Nitride photonics platforms.

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<sup>1</sup> The candidate is aware and accepts that according to the Photonics21 Terms of Reference (§ 5 (10) a membership fee - as determined by the General Assembly of the Association - needs to be paid to the Photonics21 association.

## Photonics21 Board of Stakeholders - Letter of Nomination

We are supporting the mission to go for European leadership in photonics and actively engage in co-operative projects to enable this. We are an active supporter of joint development of new applications and technologies with other EU industries and institutes. This is proven by the fact that we are a partner in a number of H2020 projects. Among others we are taking part in the quantum flagship project UniQorn to explore new applications, and the pilot line project InPulse and ACTPHAST4.0 to support other SMEs and industries in Europe with their photonics endeavours. Furthermore we are working with EU partners to setup a European supply chain for integrated photonics with support from and in the framework of the HORIZON-KDT-JU PhotonixFab project.

Our technology and the open access to it, in combination with the strong collaboration with universities enables and supports research and development over a broad range of applications.

The nature of our company, offering an open-access technology for innovative companies and institutions puts us in a good position to enable the Photonics21 mission and as such we can actively contribute to the BoS.

Our contribution will consist of the knowledge and experience of commercial open access, joint development of new applications, and making links to relevant industries.

- b)** Description of the activities and information about expected contribution and value added the BoS Representative (candidate / person) will bring to the BoS.

Dr.ir. Luc Augustin received the MSc and PhD degree in Electrical Engineering from Eindhoven University of Technology, The Netherlands. After his graduation, he switched to industry, to work at Cedova, Photonics Lab as part of Philips Research, stepped to the Photovoltaics industry and went to Solland Solar, to be involved in the development, pilot production and optimization of the Sunweb solar module technology. He was part of the founding team at SMART Photonics in 2012 where he setup the technology platform. He is CTO at the company and responsible for the technological strategy of the company, product management and the technology roadmap. From December 2023 he is parttime associate professor at TU Eindhoven with focus on large scale photonic integration.

An important part of the R&D roadmap is consisting of joint development in collaborative projects with customers and EU project partners.

He has valuable contribution to the Photonics21 roadmap and fulfill his role as BoS representative with his experience in collaborative research, both from a scientific as well as from a commercial perspective. Next to this his value is in the understanding of the photonics technologies and requirements and identify the gaps in the current research environment. Furthermore, he can contribute with the knowledge and expertise on open-access technologies and joint development on photonic integration keeping each company's uniqueness and IP ownership. Which is required to achieve a leading role for Europe.