



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (organization) / representative (person).

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2020**

Photonics21 Board of Stakeholders - Letter of Nomination

§ 5 BOARD OF STAKEHOLDERS (6) b....A candidate nomination will always contain the name of the candidate organisation together with its proposed BoS Representative, and voting on a candidate implies voting on this combination.

1. **Full legal name of the affiliation nominated as BoS Member (candidate's organisation):**
Mr Torsten Vahrenkamp / ficonTEC Service GmbH
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 Service Fee. The Service Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12,c).*)

ficonTEC Service GmbH
Torsten Vahrenkamp
Im Finigen 3
28832 Achim

3. **Name of the suggested BoS Representative (the personal candidate)**
Mr Torsten Vahrenkamp
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 (candidates organization) will bring to the BoS¹

ficonTEC provides device micro-assembly and testing solutions for the photonics industry. These solutions are realized as cutting-edge, high-precision production systems leveraging advanced automation approaches, regardless of the device material and target application. The modular system architecture is scalable, so that exploratory, proof-of-process development as well as high-volume manufacturing requirements are addressed.

ficonTEC is the largest supplier for such automated equipment with subsidiaries around the world and serves the largest companies dealing with photonics components and with the most renown research institutions for photonic devices. ficonTEC is an enabling company for the photonics industry as it drives miniaturization and allows its customers to move with innovative ideas from the lab into a final product which can be produced in medium to high volumes. Due to the ficonTEC very low labor intense and high automated solutions, photonics

¹ The candidate is aware and accepts that according to the Photonics21 Terms of Reference a service agreement and a service fee invoice is to be signed / paid with the Photonics21 association.

Photonics21 Board of Stakeholders - Letter of Nomination

productions do not necessarily require to be localized in low labor-cost countries and can be cost effectively localized in Europe.

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

Torsten holds a Diploma for Applied Laser Technologies from the [University of Applied Sciences in Emden](#), Germany in 1998. During further work at the Institute of Laser Technology in Emden and [University of Loughborough, UK](#), he built a fully automatic laser lithography system for rapid generation of microstructures in submicron dimensions. He also developed a process to generate the world's first in-glass diffractive optics using ion exchange processes in gradient refractive index glass, and which is still used today for the generation of waveguides in glass.

Torsten is Chief Executive Officer and co-founder of ficonTEC Service. He built the company from 3 to 180+ people with operations around the world. He made ficonTEC a global player and a well-known and respected company in the photonics world.

The initial company goal in 2001 was to develop innovative automatic and semi-automatic assembly and test solutions for the fiberoptic industry. Since then Torsten has been leading the sales and engineering teams, expanding the company mission and competencies with continuous technology innovation. Torsten designed high-end, flexible, scalable hardware and software architectures to assembly and test silicon photonics and micro-cameras. His technology vision and restless research for improvements have been instrumental for the company engineering and R&D teams: he is facilitating the adoption of edge solutions with Machine Learning algorithms for adaptive and predictive maintenance; the adoption of IIoT (Industrial Internet of Things) and *Industrie 4.0* concepts that transformed automatic machine in effective and flexible Cyber Physical System (CPS).

In his technical lead role Mr. Vahrenkamp developed and patented cutting-edge solutions to improve machines' mechanical performances and accuracies, leveraged the most advanced computer and measurement technologies to develop unmatched active and passive alignments of photonics components. In his corporate leader role, Torsten developed a successful business model and built a company that is inclusive, offers equal opportunities, accepts and welcomes diversity: values that help create the best technology and engineering solutions.

Conclusively we think Mr. Vahrenkamp is the right candidate to be nominated due to the above described business acumen, technology competencies and ethical values.

Photonics21 Board of Stakeholders - Letter of Nomination

Final information from the Photonics21 secretariat:

- *We recommend limiting the BoS nomination letter to 3-4 pages max.*
- *Letters of nominations should be submitted electronically to secretariat@photonics21.org*
- *It is highly recommended to consult the Photonics21 Terms of Reference before submitting the nomination.*
- *Please note that the deadline for providing BoS nominations to the Photonics21 Secretariat is **25th August 2020**.*