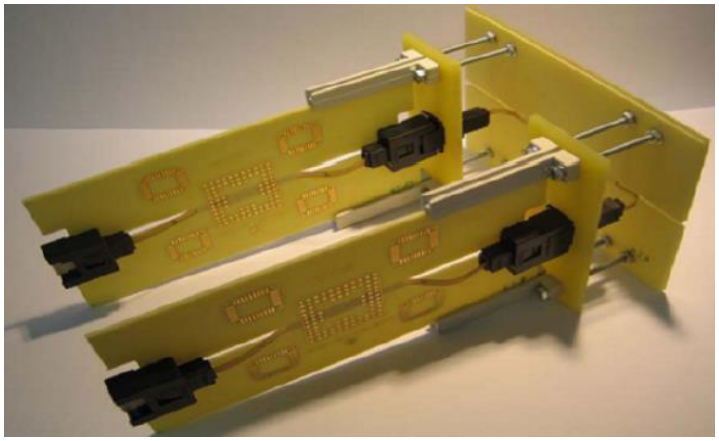
Internship / BSc. or MSc. Thesis

Design & construction of waveguide to fiber connectors

- Full-time / part-time / remote
- Duration: 3 – 6 months



vario-optics is a leading manufacturer of planar polymer waveguides. Based on its single-mode and multimode platforms, a variety of photonic systems can be produced.

The goal of this project is to come up with a functional concept and design of an opto-mechanical fiber-to-waveguide interface. The connection should be compatible with common standardized fiber-connector types (e.g. MT-ferrule, SC, etc), while providing optimal optical performance. Moreover, the interface should exhibit a design, which is easy to manufacture and robust in operation.

Your Tasks:

- Literature research on previous works and fiber connector types
- Identification of relevant performance parameters and requirements
- Development of a dedicated concept and design (CAD, rapid prototyping) for a pluggable waveguide to fiber connector

Your Profile:

- Background or strong interest in optics/photonics
- Experience with common CAD tools and mechanical simulation software
- Experience in mechanical construction or fiber optics is a plus
- Motivated to solve technical challenges
- Independent, careful and reliable
- Good communication skills

Our Offer:

- Opportunity to gain experience in high-tech industry
- Hands-on experience with optical systems and technologies
- Working in a dynamic startup environment

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