SCANTINEL PHOTONICS is a high-tech startup in the field of LiDAR technologies developing the key optical sensors enabling fully autonomous vehicles in the future. Such cars will come to reality faster than you can imagine. Our expertise is based on our years together at the optical technologies market leader ZEISS. To complete our team of experts, we are looking for passionate and talented people who will enjoy the ride with us!

Embedded Software and FPGA Developer (f/m/x) - Ulm

Your main responsibilities:
- Develop concepts and implement real time software and FPGA designs for controlling our unique integrated scanner which is implemented on a photonic integrated circuit
- Develop concepts and implement real time software and FPGA designs for efficient data analysis within FMCW LiDAR systems
- Align concepts and architectures within Scantinel team
- Support lab and test site activities with embedded software, FPGA designs and test scripts
- Documentation of the concepts and development results
- Prototyping of algorithms e.g. in MatLab or Python

You should have:
- A university degree in Electrical Engineering or similar
- Experience in embedded software development
- Good knowledge in communication engineering, signal- and system theory, digital signal processing, control theory, image processing, computer vision, statistics
- Experience in C/C++, Matlab and/or Python
- Experience in FPGA Programming using Xilinx Vivado and/or LabView FPGA
- Experience in using Linux operating system and in software development for/with Linux
- Good Know How in Hardware and proven experience in Hardware-Software Co-Design
- Willingness of working in fast-moving environments with high levels of ambiguity and rapidly changing markets as well as a 'hands-on-attitude'
- Very good communication skills
- Fluent English skills

At Scantinel you have the great opportunity to work in a very dynamic market environment and in close cooperation with international technology partners with leading industry expertise in their fields. You get in touch with leading suppliers and OEMs in the automotive industry. You will find a very challenging environment, working in a team of highly qualified scientists and engineers who value openness, trust and empowerment. These shared values enable you to directly influence the future directions of our technology & business targets, that's to say to influence the future of autonomous driving. It's our best guarantee for success.

Let´s go together along in innovative ways to make our roads safer and accidents a thing of the past with your competence, your passion and your enthusiasm for disruptive technologies!
Scantinel Photonics is backed by ZEISS Ventures.

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