



## Software Engineer

### Who we are:

Symeo GmbH, as part of Indie Semiconductor Inc., is a developer and manufacturer of innovative radar devices for the industry and automotive. We combine radar high-frequency technology and communication to make existing technology better and enable new applications in the first place. Nationally and internationally, we work closely with original equipment manufacturers, system integrators and technology partners.

### Job description:

Do you enjoy working in a creative fast-growing entrepreneurial environment? With Symeo GmbH, as part of Indie Semiconductor Inc., you'll never walk alone! We place high value on our teams and pursue excellence for our employees and customers!

Indie Semiconductor is a fabless semiconductor company specializing in the design of innovative mixed-signal System-on-Chip (SoC) solutions for automotive applications.

We are seeking a signal processing engineer to join our automotive radar team. This position is a software engineer responsible for implementation and architecture expansion of our software defined radar (Radar evaluation environment REE). The position stretches from algorithm implementation on powerful GPUs to run-time optimization to developing DSP-like versions of the code, e.g. with fixed point processing. In addition the position encompasses development of automated and semi-automated verification and validation methods, using optical technologies as ground truth input. Further tasks are maintaining and refining the SW framework as well as constantly improving the SW architecture behind. Integration and improvement of the visualization tools is another aspect. The position directly reports into the director of radar systems and is a unique opportunity to work at the forefront of algorithm development where you turn ideas into real automotive products. You will be shaping unique hardware-software codesigned products based on Indie's strength in processing, digital systems and RF hardware.

---

**Job responsibilities:**

- Implementation of radar algorithms
- Pre-validation concepts for DSP based implementations
- Benchmarking of different implementations
- Implementation of algorithms and automated test methods in our radar evaluation environment (REE) in Python.
- Taking over responsibilities for software architecture
- Interface to and integrate existing visualization tools for radar development
- Develop and implement analytic SW packages for the REE
- Integrate embedded routines and limitations into the REE for benchmarking performance against floating point implementations.
- Transfer requirements into software and system architectures.
- Some travel will be required, including international.

**Job requirements:**

- Proficient in modern software architecture and implementation tools
- Strong coding skill in Python including the packages Numpy and Cupy
- Interest in covering algorithm work from theory over implementation up to verification with data from simulation and test drives.
- Master's degree with 3+ years of experience or a Ph.D. degree in computer science, Engineering, Mathematics, Physics or another technical field
- Experienced version management and CI tools for software engineering (Git, Jenkins)
- Acquainted with Linux-based ROS (Robot operating system) and first hands-on project experience
- Excellent communications skills (internal and external)

**Benefits and additional services:**

- Flexible working hours
- Competitive salary package with additional bonus scheme
- Excellent opportunities for advancement
- Employee stock programs
- Pension and life insurance

Join our fast-growing team and experience an open work culture, strong team spirit and unique atmosphere. Our international network of development sites helps to shape the future automotive sensor and perception markets.

We look forward to receiving your application. Contact: [career@symeo.com](mailto:career@symeo.com)

Symeo GmbH – Prof.-Messerschmitt-Str. 3 – 85579 Neubiberg – Germany

[www.symeo.com](http://www.symeo.com)