

Workshop: **Automotive Radar Technology**
Date: **March 14, 2019**
Speaker: **Dr. Florian Pfeiffer, CEO and founder of perisens**

Workshop Content:

• Radar Technology

- Brief history of Radar (From the invention in 1904 to the automotive radar sensor)
- Basics radar technology (electromagnetic wave properties and propagation effects)
- Methods of distance measurements in automotive radar sensors (Pulse, FMCW, chirp sequence FMCW)
- Methods of velocity measurements in automotive radar sensors (Doppler)
- Methods of Direction of Arrival (DoA) measurements in automotive radar sensors (amplitude and phased based methods, digital beamforming, concept of virtual (MiMo) and sparse array configuration)
- Radar signal processing (from raw data to object data)
- Radar vs. other sensor technologies (camera, ultra-sonic and LIDAR)
- Future trends in automotive radar

• Integration of the radar into the vehicle

- Influences of the integration (radome) on the radar performance
- Relevant material properties (plastic and paint) and measurement principles
- Design principles of radar covers (radomes)
- Radome test solutions

Conditions:

Services:

- One-day workshop including 77 GHz radar life demonstration (approx. 6 hours + subsequent discussion)
- Training documents for all participants
- Participant certificates
- incl. catering
- Language: English or German

Location: TACTRON ELEKTRONIK
Bunsenstr. 5
82152 Martinsried

Registration fees: 525 EUR + 19% VAT

Registration under: mathias.otto@tactron.de

