

Industry-Academic Forum on EMC 2020

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Research Activities at Rosenberger

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The motivation for this presentation is to set a basis for later discussions with the auditorium concerning the right selection of future research activities and to potentially develop further research collaborations with the industry as well as with the academic environment. Therefore, it is important to give an insight into our company, the way we think and work and the challenges we already see today.

We divide the presentation into three sections. Section 1 gives a short company overview where we show our key parameters, the global footprint, the different business areas.

In Section 2 we briefly present our R&D department structure and give an inside view into our EMC/SI laboratory, calibration laboratory, and electronics laboratory as well as our prototyping laboratory. Then we talk about some current research activities in the field of signal integrity and high-speed data transmission, EMC, screening efficiency, radio communication and optical transmission as well as automotive ethernet.

This leads us to section 3 where we like to highlight three future challenges. The need of miniaturisation caused by increasing bandwidths, high level parallelisation of data links and the need of reliable coexistence of automotive systems. The last challenge will be very important with the advent of autonomous drive systems.