

## EMC Professional Talk

### Dr.-Ing. Andreas Hardock

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### ESD in Automotive In-Vehicle Networks

New trends in automotive engineering such as electrification and autonomous driving are big challenges for automotive networks. With increasing amount of data, there is no room for failure in such networks. In a rough automotive environment, Electrostatic Discharge (ESD) is a very importance event which can cause a malfunction and irreversible damage of the entire system.

In this teleconference, it will be shown how the ESD challenges can be managed for dedicated automotive applications such as LIN, CAN, Ethernet and High-Speed Multimedia links. It will be discussed how an external ESD protection device can increase the level the system level robustness and what are the key selection parameter for an ESD protection device to fit for the automotive requirements.

**22.02.2021, 17:00 Uhr**

**Zoom: <https://ovgu.zoom.us/j/92003900283>  
Meeting-ID: 920 0390 0283 - Passwort: 008922**

#### **About the speaker:**

**Andreas Hardock** studied Nanostructure Physics at the Julius-Maximilian-University in Würzburg and made his PhD in the field of functional vias in multi-layered PCBs at the Technical University in Hamburg in the team of Prof. Christian Schuster. After that, he started his personal career at Behar-Hella Thermocontrol in Lippstadt as an EMC Engineer taking care of EMC topics for climate control units. From 2016 to 2020 he was with Continental Automotive GmbH being responsible for SI/PI and EMC/ESD topics in the product development of HMI systems. Since 2020 he is with Nexperia. In his role as an Application Marketing Manager, he is taking care of ESD and EMC with the focus of automotive applications.

#### **Organisation:**

Dr.-Ing. Miroslav Kotzev, Rosenberger Hochfrequenztechnik GmbH  
IEEE German EMC Chapter - Coordinator Technical Teleconferences