

# CANalyzer in Practice

## Agenda VectorAcademy

<b>Duration:</b>	1 Day
<b>Target Group:</b>	CANalyzer Users
<b>Prerequisites:</b>	Experience in working with CANalyzer
<b>Goal:</b>	Working with CANalyzer on a breadboard setup with real automotive ECUs

### 1 | Measuring Bus Communication of Automotive ECUs 1.5 h

- > Creating complex CANalyzer configurations
- > Using CANalyzer as a measurement and analysis tool

### 2 | Introduction to OSEK/VDX Network Management 0.75 h

- > Design of a network management message
- > Alive message, ring message, sleep indication, sleep acknowledge
- > Analysis of the network management of real automotive ECUs

### 3 | Analysis of Multiple Networked CAN Bus Systems 2.5 h

- > Simultaneous measurement of extensive communication over multiple CAN networks
- > Configuration and usage of different CAN hardware interfaces

### 4 | Extensive Data Logging and its Evaluation (Offline Analysis) 1.5 h

- > Logging on multiple buses
- > Offline analysis of logged data
- > Selective data reduction

### 5 | Stimulation of ECUs 0.75 h

- > Stimulation of individual ECUs with recorded bus communication data
- > Using the replay block to play back data on the real buses