

Training:

Automotive Systems Hacking

Date of the training: **June 27-28, 2022** in Heidelberg, Germany

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Overview

Key Learning Objectives:

- How to identify attack surfaces on ECUs
- Understand low level CAN communication and attacks
- Obtain an overview on common vehicle architectures and network topologies
- Know the most relevant protocols in current vehicles
- Receive hands-on experience in automotive network scans
- Get an overview on toolchains of OEMs and their software update mechanisms
- Know basics about current immobilizer systems

Who should attend this training?

- Security Researchers and Engineers, Developers and Designers with automotive background

Requirements

The attendees should have:

- Laptop with WiFi or Ethernet and Admin / root privileges
- (Arch) Linux is the preferred OS
- SSH client
- Installation of latest Ghidra version
- Installation of Wireshark and Python3

Basic Knowledge of:

- Programming (C, Python)
- Linux
- Embedded systems are a plus, but not required
- Firmware reversing with Ghidra is a plus, but not required
- Wireshark or Scapy is a plus, but not required

About the Trainers:

Dr. Nils Weiss works at the Laboratory for Safe and Secure Systems (las3.de) of the University of Applied Sciences in Regensburg. He is focusing on automotive security research since more than 6 years. After an internship at Tesla Motors, Nils decided to start with automotive security research. During his bachelor and master program, he started with penetration testing of the entire vehicle. Besides penetration testing of automotive systems, he is contributing to open source penetration testing frameworks for automotive systems (Scapy).

Enrico Pozzobon has worked as an automotive penetration tester since 2016. Together with Nils Weiss, he built the automotive security research lab at the OTH Regensburg and worked with several automotive manufacturers and insurance companies to find vulnerabilities and build exploit demonstrations.

Booking

Recommended online booking of trainings through:

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