



Automobile Hacking and Security

Find vulnerabilities loopholes and security threats in your own vehicle

1.0v

Course Structure

- **Communication Protocol**
 - Parallel Communication
 - Serial Communication
- **Controller Area Network (CAN) Protocol**
 - Basics of CAN Protocol
 - Implementation of CAN Protocol
 - How Data Flows in CAN Protocol
 - Why Modern Vehicle uses CAN Protocol

Course Structure

- CAN-UTILS Framework
- Virtual Car Simulator
 - Working with CAN-UTILS in Virtual Car Simulator
- Communicating with Real Vehicle
 - Required Hardware
 - Creating the Device
 - Connecting Device with Real Vehicle

Course Structure

- CAN-UTILS with Real Vehicle
 - Dump CAN Frames from Real Network
 - Reply Attack on Real Vehicle
 - Sniffing CAN frames from Real Vehicle