

## ROBERT LEALE

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### EDUCATION

Grand Valley State University, Allendale, MI

**B.A. Communications**

Emphasis Video Production

2003

Grand Valley State University, Allendale, MI

**B.A. French Language**

2003

### EXPERT WITNESS EXPERIENCE

**Audionics Systems Inc. vs AAMP of Florida, Inc.**

Deposed as Expert Witness, Create expert report in terms of Validity and Infringement.

2014-2015

**AAMP of Florida, Inc. vs Automotive Data Solutions, Inc.**

Deposed as Expert Witness, Create expert report in terms of Infringement.

2015-2016

### TEACHING EXPERIENCE

**Vehicle Networks Hacking**

Course on Vehicle Data Reverse Engineering for DefCon 19

2011

**Vehicle Networks Reverse Engineering**

Course on Reverse Engineering Vehicle Data at Blackhat Europe

2013

**Center for Advanced Vehicle Environments (CAVE) Vehicle Data Reverse Engineering**

Created Courses for understanding how vehicle systems work and how to Reverse Engineer vehicle embedded systems

2012 -2016

**Vehicle CAN Bus Communications and Diagnostics Reverse Engineering**

Course on Reverse Engineering Vehicle Data at Blackhat USA

2014-2016

### RELATED EXPERIENCE

CanBusHack, Inc.

**President**

Create, perform, and report on vehicle system institutes through responsible disclosure. Assessed vehicle combination systems including telematics, can bus, Ethernet, Bluetooth, and standard RF such as key fob and TPMS assessments. Great a world class team of specializes vehicle hackers to mid quickly and efficiently through projects. Trained over 400 Cyber Security researches via Black Hat and other venues.

February 2010 – Present

Provide Reverse Engineering Services to customers who seek to learn more about vehicle data systems including, but not limited to, Can Bus data reverse engineering, security algorithm extraction, embedded system firmware extraction and analysis, and total vehicle data assessment.

Car Hacking Village

**Founder**

Mutli-national, vehicle-focused hacking village. Found at many Cybersecurity and Hacking Conferences such as Def Con, Hack In The Box, Hardware.IO, CypherCon, DerbyCon, THOTCon, GrrCon, BSides Tampa, 44 Con, and many more.

2014-Present

Intrepid Control Systems, Inc.

**Application Engineer**

Assists customers such as GM, Ford, Chrysler and their suppliers with understanding testing and integration problems of vehicle network systems. Including, but not limited to, test automation for durability tests. Assist customers in Vehicle Data Reverse Engineering a.k.a. competitive analysis of proprietary vehicle systems for the purpose of comparison and, in some cases, patent infringement.

February 2005 – February 2010

Assisted Aftermarket companies to develop and test their hardware devices that connected to vehicle networking systems. These devices included OBDII dongles, GPS tracking/Telemetry devices, Aftermarket control units such as Remote Start, Hand Control, and Navigation Systems. RF-Bases Systems such as Key Fobs and TPMS Sensors.

IBM Global Services

**Network Technician**

**2003-2005**

Assisted in the day-to-day maintenance of Dow Chemical's world-wide server infrastructure.

Grandville Public Schools

**Computer/Network Technician**

**1997-2003**

Computer PC repair, setup, and configuration. Assisted users with day-to-day issues. Setup computers and computer networks and support.

Hobbyist

**PC/Vehicle Integration**

**1997-2003**

Connected Desktop PC into person vehicle (1996 Honda Civic). Integrated into aftermarket Radio for Audio and OBDII Port for Vehicle Data (K-LINE).

EXPERT WITNESS

**AAMP**

**2015-2017**

Aftermarket hardware company looking to enforce and defend patents related to programmable aftermarket devices connected to vehicle electronic networks.

TRAINING

**Black Hack**

**2012-Present**

Largest Cyber Security Conference with over 75 Training Events per year

**Cyber-Auto (Center for Advanced Vehicle Environments)**

**2011-Present**

SAE's Cyber STEM Program to teach high school and university students how to get started in automotive cyber security.

**Cyber-Truck**

**2011-Present**

NMFTA Cyber STEM Program to teach high school and university students how to get started in semi-truck cyber security.

**Hardware.io**

**2017**

Hardware-based security conference based in The Hauge.

LANGUAGES

English – Native Language

French – Speak fluency, read and write with moderate proficiency