

1200 - Driving down the rabbit hole

Saturday at 12:00 in 101 Track

45 minutes | Demo

Mickey Shkatov*Security Researcher, McAfee.*

Jesse Michael*Security Researcher, McAfee.*

Oleksandr Bazhaniuk*Security Researcher*

Over the past few years, cars and automotive systems have gained increasing attention as cyber-attack targets. _ Cars are expensive. _ Breaking cars can cost a lot. _ So how can we find vulnerabilities in a car with no budget? _ We'll take you with us on a journey from zero car security validation experience through the discovery and disclosure of _ multiple remotely-exploitable automotive vulnerabilities. _ Along the way, we'll visit a wrecking yard, _ reassemble (most) of a 2015 Nissan Leaf in our lab, discuss how we picked our battles, fought them, and won. _ During our talk, we'll examine the details of three different classes of vulnerabilities we found in this vehicle, _ how they can be exploited, and the potential ramifications to the owner of their real-world exploitation. _ We'll also discuss the broader scope of the vulnerabilities discovered, how they extend beyond just this specific vehicle, _ and what the industry can do better to prevent these types of problems in the future.

Mickey Shkatov

Mickey Shkatov is a security researcher and a member of the McAfee Advanced Threat Research team. His areas of expertise include vulnerability research, hardware and firmware security, and embedded device security

@HackingThings

Jesse Michael

Jesse Michael has been working in security for over a decade and is currently a member of the McAfee Advanced Threat Research team who spends his time causing trouble and finding low-level hardware security vulnerabilities in modern computing platforms

@jessemichael

Oleksandr Bazhaniuk

Oleksandr Bazhaniuk is a security researcher and reverse engineer with background in automation of binary vulnerability analysis. He is also a co-founder of DCUA, the first DEF CON group in Ukraine.

@ABazhaniuk

#defcon25/by_track/101/saturday

#defcon25/By_Day/_saturday