Title: Hardware Security

Speaker: Dr. Luca Bongiorni

Abstract

The Hardware Hacking Training 101 is a hands-on course designed to fulfill the skills gap that in recent years emerged within the InfoSec scene in respect of the (I)IoT landscape. In it, students will be able to gather the needed theoretical knowledge and practical skills to engage with confidence hardware security audits involving those devices, that started to flood both consumer and corporate markets. The course is structured to be accessible to both junior and senior security personnel: it goes from a generic panoramic of the theory behind electronics, protocols, memories, microprocessors & tools-of-the-trade; then proceeds deeper into the topics by reviewing various TTPs. This course is a unique opportunity to enhance the skills of InfoSec professionals who are going to be involved in engagements or applied research involving unusual devices: IoT appliances, hardware implants, ATM skimmers, smart devices, Industrial IoT gateways/sensors, etc.

Biography

Luca Bongiorni is working as Director of ZTE Italia CyberSecurity Lab and is Founder of WHID - We Hack In Disguise. Luca is also actively involved in InfoSec where his main fields of research are: Radio Networks, Hardware Hacking, Internet of Things, and Physical Security. He also loves to share his knowledge and present some cool projects at security conferences around the globe: BlackHat Europe & USA, TROOPERS, HackInParis, DEFCON, HackInBo, RomHack, Defcon Moscow, OWASP Chapters, Security Analyst Summit, etc. At the moment, he is focusing his researches on bypassing biometric access control systems, IIoT Security & Forensics, Air-Gapped Environments and IoOT (Internet of Offensive Things).