Engineer/Senior Engineer, Cyber Security Tester

工作职责

- Identify and establish project specific security & privacy verification/validation measures such as weak points in Vehicle functions and new attack vectors.
- Collect information about SUT (System Under Test) on High Performance Computer, Body Control Module, Gateway, Telematics, Smart Mobile Access.
- Execute the testing activities in accordance with the security & privacy lifecycle.
- Plan and create penetration methods, scripts, and tests.
- Report the progress of the ongoing tasks to relevant project team (e.g., Technical Project Lead, Test Manager, Project Security & Privacy Manager).
- Establish and configure relevant test tools for requirement-based testing, experience-based testing, and fuzz testing.
- Execute automated test sequence using defined test cases.
- Monitor & evaluate system behavior such as how the SUT (System Under Test) responds to various attempts of intrusion.
- Generate Fuzzed data using mutation, generation, or protocol-based methods.
- Deploy cyber-attack in a simulated and controlled environment to take control & extract data out of SUT (System Under Test)
- Create test report including list of identified vulnerabilities, details of each step taken to infiltrate the SUT (System Under Test) and suggestions for security fixes.

你的档案

- Degree in Electrical / Electronics / Computer Science / Computer Engineering / Cyber Security or relevant field.
- 3-5 years of experience in testing or development with solid understanding of software development lifecycle.
- Familiar with Agile development framework (e.g., SAFe, Scrum)
- Good understanding of Cryptography
- Knowledge of Automotive Networking protocols (CAN, LIN, Ethernet, SOME/IP, DoIP, UWB, PCie, Bluetooth, Wifi) and Security protocols (IPSec, MACsec, SecOC) is a plus.
- Knowledge of Product Security in Electronics and Embedded System/IoT will be an added advantage (such as Secure Boot, Secure Diagnostic, UDS, Secure JTAG, Linux Hardening)
- Knowledge in automotive system expertise, automotive testing knowledge will be an added advantage.
- Strong experience with Vector tools such as CANoe, vTESTstudio
- Knowledge of Requirement Management, Change Management and Configuration Management process and tools (DOORS, JIRA, Git/Github).
- Good programming knowledge in one or more programming languages – Python, C++, C / C# programming and CAPL.

职位号码
REF54682F

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新加坡

领导力级别
Leading Self

工作场所灵活度
Hybrid Job

法律個體
Continental Automotive Singapore Pte. Ltd.

- Familiar with common penetration testing frameworks (e.g., Kali Linux, Metasploit)
- Ability to work in international teams and with international customers.
- You are pro-active, motivated and a good collaborator.
- Strong in explaining technical details to various stakeholders.
- Security & Privacy certifications are a plus but not mandatory (e.g., ISTQB, CEH, CISSP, GPEN, GXPN, OSCP, OSCE, CCNP)

我们可以提供

Security Test Center is a global team with team members from Singapore, Bangalore, Romania, Germany, and Mexico. We are part of Business Area - Architecture and Networking in Continental Automotive. We are seeking highly skilled Product Security Tester to conduct targeted attack and scrubbing out vulnerabilities on Architecture and Networking Automotive products (High Performance Computer, Body Control Module, Gateway, Telematics, Smart Mobile Access and more).

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关于我们

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2021, Continental generated sales of €33.8 billion and currently employs more than 190,000 people in 58 countries and markets. On October 8, 2021, the company celebrated its 150th anniversary.

The Automotive group sector comprises technologies for passive safety, brake, chassis, motion and motion control systems. Innovative solutions for assisted and automated driving, display and operating technologies, as well as audio and camera solutions for the vehicle interior, are also part of the portfolio, as is intelligent information and communication technology for the mobility services of fleet operators and commercial vehicle manufacturers. Comprehensive activities relating to connectivity technologies, vehicle electronics and high-performance computers round off the range of products and services.