

Senior Researcher Cyber security for carcomms & autonomous driving



(Netherlands, EU work visa possibility)

Description

Hoppeexecutivesearch is looking for engineers at Master's and doctorate level with experience in Computer Vision, Machine Learning and Deep Learning.

Hoppeexecutivesearch offers jobs in Europe and around the globe with leading and innovative clients. We supply to highly international teams in corporate R&D.

Requirements

As a cyber security researcher for this fast growing European R&D laboratory of a global ADAS and HD-mapping company, your tasks will include carrying out leading investigation into matters relating to the security robustness of in-car systems and autonomous driving solutions. Your work will be finding different vulnerabilities and problems with the hardware and software of the different vehicles in the market, existing and proposed protocols, as well as find countermeasures and ways to correct them. Your profile:

- Educated and experienced in cyber security, preferably with a master's or PhD degree from a leading university;
- A true zest for leading innovation and international research in car communications and autonomous driving technology;
- Experience with CAN bus, Android Auto, V2X communications, ADAS, etc.;
- Ability to analyse the current car computer and networking technology to great detail in order to find vulnerabilities and potential problems. This includes technology inside the car (CAN bus and attached devices) as well over-the-air (V2X, 4G). This can include reverse-engineering devices and communication protocols and hardware when needed;
- Helping colleagues to design and implement tools in order to extract and analyse low-level information from vehicles and creating prototypes to counter potential security problems;
- Keeping up-to-date a deep understanding of the current vehicle ecosystem to find potential problems with security and privacy;
- Identify potential problems and attacks in vehicle-to-vehicle and vehicle-to-infrastructure communications including penetration testing;
- You have a thorough understanding of machine learning frameworks (Scikit-Learn, Weka, PyTorch, etc.) and follow world ML and DL publications and presentations such as ECCV, CVPR, ICML, ICLR, NIPS;
- Fluent in English, both written and spoken;
- You are strong on work ethics and taking your professional responsibilities.

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Technologies involved:

- Embedded vehicle networks, HW and SW (CAN bus, infotainment, microcontrollers, etc.);
- Out-of-vehicle network protocol: V2V, V2I, 4G/5;
- ADAS and other driver assistance technologies (parking assistance, etc.);
- Android Auto and Apple CarPlay;
- Pen-testing;
- Communication protocols and embedded HW;
- Knowledge of electronics, electronic design and microcontrollers;
- Reverse-engineering SW for different platforms (x86, ARM, etc.);
- Cryptography: cyphers, protocols, PKIs;
- Programming: strong Python code, C++ 11 up.

Benefits

We are convinced you will find the Netherlands an exciting environment for research and living; for you, and also your family. We typically rank the world list for nicest and (work-visa) easiest and most welcoming places to live for expats.

You will make visits to our international offices abroad also, and participate in leading conferences. Our laboratories are growing fast, and so will your career opportunities.

- Location: Netherlands. Duration: fulltime positions, unless indicated otherwise.
- Full EU work visa possibility for non EU candidates.
- **Start date: Start or sign up as soon as possible.**
- Contact Name: Casper Hoppe Email: casper@hoppeexecutivesearch.com or use the online application form on :
<https://hoppeexecutivesearch.workable.com/jobs/242494/candidates/new>