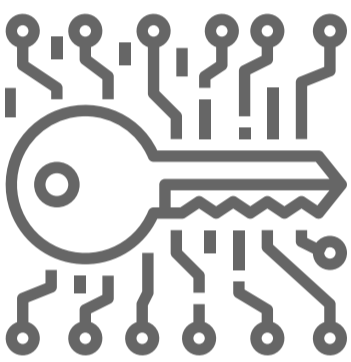# FUTURE JOB ROLES

ENGINEERING AND RESEARCH & DEVELOPMENT

AUTOMOTIVE CYBERSECURITY ENGINEER

Car functionality depends more than 80% on software. New ADAS (Advanced Driver Assistance Systems) and highly autonomous vehicles are based on a network of electronics, software and car to x communication.

The use of software and networks in cars opens the door for cyber attacks. First cybersecurity attacks already took place and all new car models require to follow automotive cybersecurity norms, such as ISO 21434 and SAE J3061.

The implementation of cybersecurity engineering requires additional forms of analysis, design views, and preventive design strategies, which need to be added to the existing engineering disciplines. Cybersecurity is an extension of software and hardware engineering studies.

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