

FUTURE JOB ROLES



ENGINEERING AND RESEARCH & DEVELOPMENT

FUNCTIONAL SAFETY ENGINEER



In modern cars, 90% of the functions are controlled by software, electronics and mechatronics.

Electronic and software faults can lead to failures in cars which can be hazardous, such as e.g. no steering, steering blocking, no brake, self-driving car decisions etc.



The use of software and electronics in the car leads to potential hazards that need to be managed in automotive projects. Norms like ISO 26262:2018 - Road Vehicles Functional Safety Standards need to be considered in the homologation process of cars.



The new emerging functional safety engineer requires to implement hazard and risk analysis, safety goals, safety concepts following specific design methods, and reaching test coverage applying safety relevant test design techniques. This is an extension of existing software and electronic engineering study programs.

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