

FUTURE JOB ROLES



ENGINEERING AND RESEARCH & DEVELOPMENT

AUTOMOTIVE MECHATRONICS EXPERT

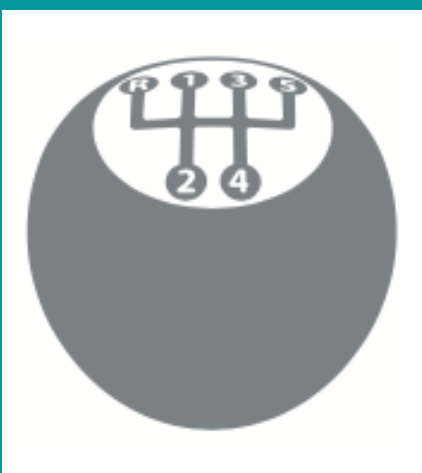


With rising degree of electrification and digitalization of automotive systems, an effective integration of the domains mechanics, electrics and information technology plays a significant role in automotive development processes. Besides engineering expertise in each of the domains, vehicle manufacturer and supplier increasingly need human resources for the management, development and administration of mechatronics systems throughout the entire value-creation chain.



This includes conception, design, simulation, manufacturing engineering as well as production, logistics, maintenance and quality management of mechatronics systems, which are composed of modules and components of the three mentioned domains.

The complexity of mechatronics systems is considered and represented by several standardized development processes, e.g. the V-model according to VDI 2206 or the Functional Safety Standard ISO 26262.



Automotive Mechatronics Expert understand the legal background, complexity and behaviour of mechatronics functions and products. In addition, they understand risks and impacts on design and costs and required organisation roles and responsibilities in the development and production of mechatronics systems.

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