Press Release

Rail technology: ITK Engineering develops CENELEC-compliant reference workflow

Standard-compliant software development with automated documentation and shorter time to market.

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To guarantee high availability and master the growing role of software in safety-critical railway applications, the systems and software company ITK Engineering employs sector-specific expertise in tools and methods. Working on a process-oriented basis in compliance with CENELEC standards, the high-tech company develops scalable architectures and software that enable networked and modular solutions. ITK Engineering has developed its own proprietary CENELEC reference workflow, which it uses in its projects to guarantee that the software development process complies with CENELEC standards EN 50126, EN 50128, EN 50657 and EN 50129 for railway applications. The workflow also moves their customers' product ideas quickly to market readiness.

At all stages of the development process, the experts at ITK Engineering use templates stored in an application lifecycle management (ALM) tool to automatically generate the necessary documentation. This prevents deviation from required standards while documenting functional reliability. Connectors guarantee the traceability of the individual development steps. The inspection agency ERC.RAIL GmbH, accredited by the German Federal Railway Authority (EBA), issued a positive assessment after evaluating this generic procedure.

ITK Engineering GmbH
Hauptsitz Rülzheim
Im Speyerer Tal 6
76761 Rülzheim

T: + 49 (0)7272 7703 – 225
F: + 49 (0)7272 77036 -100
presse@itk-engineering.de

www.itk-engineering.de
www.itk-karriere.de

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A secure and standard-compliant development process
ITK Engineering's Rail Technology business unit knows the rail sector's specific requirements but can also draw on the 25 years of methodological and development expertise that the technology company has acquired through projects for other sectors of industry. The services offered by the company range from software and systems engineering to the development of digital solutions for operators, system providers and component manufacturers whose business includes both rolling stock and infrastructure.

"Given the trend toward increasing digitalization, more and more customers require electronic components and software functions to modernize rail vehicles and railway infrastructure. As the number of software functions continues to grow, so does the level of functional complexity. Now it's more important than ever to our customers that their development partner guarantees compliance with standards and can implement state-of-the-art development processes. The positive evaluation by an independent inspection agency demonstrates the reliability of the ITK workflow," says Andreas Hohl, head of the Rail Technology business unit at ITK Engineering.

Press Contact:
Lena Teifel
Phone: + 49 89 8208598-225
E-Mail: presse@itk-engineering.de

About ITK Engineering
ITK Engineering GmbH was established in 1994 as "Ingenieurbüro für technische Kybernetik" and is an internationally operating technology company with customers in the automotive and aerospace industries as well as in building and medical technologies, motorsports, robotics and transportation. In addition to tailored technical consulting and development services, the company offers turn-key systems in the fields of software engineering, embedded systems, model-based design and testing as well as control systems design and signal processing. With a staff of 1,200 associates, ITK is headquartered in Rülzheim (Palatinate) and has nine branch offices in Germany. In addition, ITK is represented in the USA, in Japan, Spain and Austria. Worldwide, 1,300 associates are working for the engineering partner. Since 2017, ITK Engineering is a 100-percent subsidiary of the Robert Bosch GmbH.
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