Exclusive Solutions for Colleges and Universities

Students can familiarize themselves with ETAS tools early on thanks to special higher-education packages

With its comprehensive portfolio of products and solutions, ETAS offers active support to higher education and research institutes worldwide in the area of embedded systems. As a result, all work processes in areas ranging from software development to measurement, calibration, and diagnostics can be supported in accordance with the highest standards and using products with a proven track record in the automotive industry. In this way, ETAS is helping to optimize research and training at higher education and research institutes, as well as train qualified junior engineers.

The Formula Student teams sponsored by ETAS achieved excellent results at the Hockenheim competition.

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For years, ETAS has worked successfully with higher education and research institutes, based on a higher-education model tailored to their needs. In addition to providing well-established products and solutions which have been used in the automotive industry for many years, ETAS offers packages specific for higher-education. Such higher-education packages address a particular use case, usually drawn from the daily work of an engineer. The packages consist of the appropriate hardware and software, backed by support for the technical implementation. One such use case is the simulation of a vehicle CAN in the institute's own computer lab.

Students use the open source software BUSMASTER with the associated ES581 USB CAN Bus Interface Module. The use case presents complex topics in simplified form and establishes their relevance to the real world. What's more, the open source tool offers users the opportunity to experiment and include their own ideas. Professors can additionally obtain various documents produced by ETAS for their academic lectures, such as the reference book "Automotive Software Engineering". Based on what is known as the V model, the book's aim is to illustrate the respective phases of the software development process as well as the corresponding ETAS tools.

The ETAS University Liaison Manager is available to provide local support to higher education and research institutes at all times and jointly find custom solutions. Higher education and research institutes in countries where ETAS has a local office, such as India, China, or the United States, receive support directly from local associates.

More than 150 colleges, universities, and research institutes worldwide rely on ETAS, including: University of Stuttgart, RWTH Aachen University, ETH Zurich, TU Vienna, University of Bochum, TU Braunschweig, TU Darmstadt, Esslingen University of Applied Sciences, TU Munich, KIT Karlsruhe, Dayananda Sagar University (Bangalore), University of Applied Sciences Landshut, Jiaotong University (Shanghai), Universidade Estadual de Campinas (São Paulo), Politecnico di Torino (Turin), and Fraunhofer Institutes.

Formula Student – a recipe for success

Formula Student has estabilised itself as an exciting project for applying the theoretical knowledge gained academically to real-world situations on and alongside the racetrack. Formula Student provides students with the opportunity to further their technical education and specialize in a preferred area, while also enhancing their soft skills. Since 2008, ETAS has been one of Formula Student Germany's main sponsors.

A win-win situation

In 2015, ETAS sponsored 25 teams with products and product training. ETAS supports teams with the entire product portfolio and gives participants a chance to get to know the products in practical applications. Not only do the students further expand the specialized knowledge they can directly apply later in their careers, they are already using ETAS products to take the lead in the racing series. Since 2010, over 1,800 students have become acquainted with ETAS and ETAS products in this way. Two teams have already used ETAS products to break the world record for acceleration to 100 km/h.

ETAS uses this platform to establish contact with students at an early stage. As Germany is one of the key centers of automotive development, it is important for ETAS to continue to attract highly motivated engineers who will help the automotive industry advance – because today's students are tomorrow's engineers.