

The background features a futuristic, high-tech aesthetic. On the left, the 'hitex' logo is displayed in white. To its right, a red wireframe diagram shows a signal path from two input squares through a rectangular block and a triangular amplifier to a central text box. This box contains the text 'HITEX AURIX KNOWLEDGE LAB 2025 MODEL BASED DEVELOPMENT' in a mix of white and red. To the right of the box is a large, detailed red wireframe model of a mechanical component, possibly a lens or a camera module, with various internal structures visible. The entire scene is set against a dark, blurred background with blue and red light effects.

hitex

HITEX AURIX
KNOWLEDGE
LAB 2025
MODEL BASED
DEVELOPMENT

AURIX™ KNOWLEDGE LAB 2025 MODEL-BASED DEVELOPMENT

**Practical techniques for model-based
development with AURIX™ microcontrollers**

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AURIX™ Knowledge Lab - Basics



1.1 Welcome and Introduction

Wolfgang Fuller (Hitex)

Wolfgang Fuller
Senior Marketing Manager



Hitex: embedded experience and innovation



Part of the Technology Region, part of Europe

- Headquarters in Karlsruhe, Germany
- Subsidiary in Coventry, UK

High-tech history

- Founded in 1976
- Winner of four Embedded Awards

Highly qualified team

- Over 70 highly motivated employees
- More than a third of them developers



Focus on embedded know-how and embedding quality



Functional safety

- Training and consulting
- Safety-critical software and middleware



Embedded security

- Customized security architectures
- Threat analysis and risk assessment



Energy efficiency & e-mobility

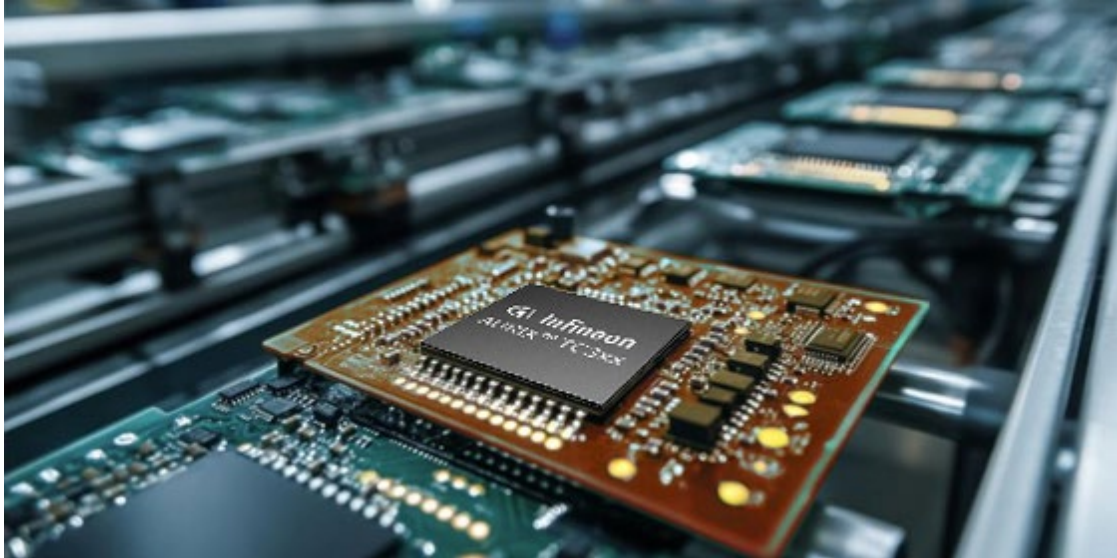
- Development with a focus on economy
- Expertise in battery management



Standards & certification

- Foundation for long-term success
- Accompanying the certification process

Hitex is AURIX™ Preferred Design House



Tools & Components

- MCAL & drivers
- Boards & adapters
- Safety solutions
- Safety/Security libraries

Services

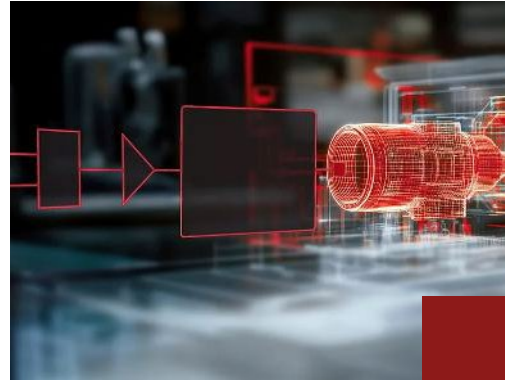
- Consulting & training
- Engineering services
- Certification & software testing
- 3rd Party tools

Today's Program



Project Basics

AURIX™ and model-based workflow and the new Hitex SafeTpal Suite



Model-based Development

Pre-packaged software bundles, targeting AURIX's parallel processing unit and certified drivers



Software Tools, Components, Testing

The right compiler and testing approaches with debugging tools



Wrap-Up & Hitex as Preferred Design House

A summary of resources to support your development

AURIX™ Knowledge Lab Agenda



Basics

- 1.1 Welcome and Introduction
- 1.2 Safety and security made easy with the Hitex SafeTpal Suite

Model-based development for AURIX

- 2.1 Drive Core – scalable software bundles
- 2.2 Model-based development and virtual ECUs targeting the parallel processing unit (PPU)
- 2.3 Using safety certified drivers with MathWorks Hardware Support Package (HSP)

Software Tools, Components, and Testing

- 3.1 The right compiler for model-based development
- 3.2 Model-based testing on the hardware

Conclusion and summary

- 4.1 Wrap-up, more information and upcoming webinars

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