

## STM32: Technical Training - Face-to-Face Training

### Objectives

You know the Cortex®-M3 architecture STMicroelectronics STM32F10x and are able to create drivers for the on-chip periphery.

### Participants

Software and hardware developers

### Requirements

Knowledge of ANSI-C as well as basic knowledge of microcontrollers.

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### Content

**Overview of the STM32 Architecture (STM32F0, STM32F1, STM32F2, STM32F3 and STM32F4 series) for Arm Cortex®-M0, Arm Cortex®-M3 and Arm Cortex®-M4 processors**

#### CPU, Registers

#### Internal Bus Architecture

#### Stack Handling

#### Memory Mapping and Boot Modes

#### System Architecture

#### On-Chip Flash Architecture

#### Direct Memory Access Controller DMA

#### Power Supply, Clock Control, Reset

#### Power Management, Power Saving Modes

#### Real-Time Clock RTC

#### Window Watchdog WWDG, Independent Watchdog

#### Port Architecture: GPIO/AFIO

#### External Interrupt/Event Controller EXTI

#### Analog-to-Digital Converter ADC

#### Advanced Control and General Purpose Timers

#### Serial Peripheral Interface SPI

#### Inter Integrated Circuit IIC

#### Universal Synchr. Asynchr. Receiver Transmitter USART

#### Controller Area Network bxCAN

#### STM32F10x Driver Library and Low-Level-Driver STM32 Cube

To intensify the content of the training, exercises will be performed regarding interrupts, DMA, timer, serial interface

and ADC.

- Exercises will be based on the STM32 starter kit MCBSTM32F200/F400 by Arm/Keil and the STM32 NUCLEO-F746ZG board by ST.

## FACE-TO-FACE TRAINING

<b>Price *</b>	<b>Duration</b>
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2.100,00 €	3 days
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Training code: E-STM32

\* Price per attendee, in Euro plus VAT

### Face-To-Face - German

<b>Date</b>	<b>Duration</b>
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16.03. – 18.03.2026	3 days
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### Live Online - German

<b>Date</b>	<b>Duration</b>
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13.07. – 15.07.2026	3 days
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### Coaching

Our coaching services offer a major advantage: our specialists introduce their expertise and experience directly in your solution process, thus contributing to the success of your projects.

We will be happy to provide you with further information or submit a quotation tailored to your requirements.