

## **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, STM32F4 and STM32F7 series) for Arm Cortex®-M0/M0+, Arm Cortex®-M3, Arm Cortex®-M4 and Arm Cortex®-M7 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**

**STM32 Cube HAL- and LL-Library**

**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 NUCLEO-F746ZG board by ST.
- The exercises are done using Keil Studio (Visual Studio Code), STM32CubeIDE (Eclipse) or STM32CubeIDE for Visual Studio Code.

## **FACE-TO-FACE TRAINING**

<b>Price *</b>	<b>Duration</b>
2.100,00 €	3 days
Training code: E-STM32	
* Price per attendee, in Euro plus VAT	

### **Face-To-Face - German**

<b>Date</b>	<b>Duration</b>
23.11. – 25.11.2026	3 days

### **Live Online - German**

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

## **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.