

ARM-KEIL Basics Workshop

Overview and basics about ARM Keil Embedded Development Tools

We teach you the basic knowledge about the ARM Keil development environment(IDE) μ Vision.

You will learn the fundament of programming a Cortex-M. We will work out practical examples with you, how to create, download and debug a simple application.



For whom is this workshop appropriate?

Students or Programming-Beginners who need a quick and easy entrance into the world of microcontroller programming

Requirements

- A basic understanding of the programming language C

Topics

- Introduction into the ARM Cortex-M architecture
 - ARM Cortex architecture overview
 - ARM Core and "Core Sight debug Macrocell"
- MDK-ARM Basics*
 - IDE content overview
 - IDE and "Softwarepacks" installation
 - insight into Licensing
- Create a first project*
 - Project creation
 - Add additional code
 - managing source files
 - manage project output
 - Configuration Wizard
- Optimisation*
 - advantages and disadvantages
- Download**
- Debugging**
 - program stepping
 - Breakpoints
 - System Viewer
 - Watch Windows
- Time to discuss
- Certification Test

* Basic Software examples

** Basic On-Board (Hardware) examples

Languages: German or English

Included Material:

- NUCLEO-STM32F103
- Book
- USB-Pen with examples and documentation

Information about the course instructor:

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