

TeachSurfing Workshop

Basic C coding on microcontroller MSP430

The workshop can be split in two parts or there can be two workshops with the same content delivered on the two available dates.

TeachSurfer

Felix Kiefer

Date & Duration:

Available on 19.10. and the 22.10.2018

Planned for 180-240min

About the TeachSurfer

Felix Kiefer is a student of electrical engineering at Technische Hochschule Mittelhessen THM and is working at Bender GmbH & Co. KG in Gruenberg, Germany. Bender is a global player specialized on electrical safety. The focus of Mr. Kiefer's studies is electronics development and circuit simulation.

Mr. Kiefer loves to inspire people by sharing his knowledge about electrical engineering. His aim is to arouse interest in doing own small projects with electronics components.

Next to his technical expertise Mr. Kiefer is interested in sustainability, nature, handcraft, board games, cooking, and exploring cultures by traveling.

Workshop summary

The goal of this workshop is to learn how to put C code on a Microcontroller. After a theoretical introduction to this specific Hardware, participants will write C code and program it on an MSP430 board guided by practical exercises and supervised by the TeachSurfer.



Target group

- Age 16+
- People who know basic C programming statements like: if/else, while, for
- People who know basic C operators like: ==, <, !=, ++, &, |, ~
- People who have a basic understanding of the C programming language
- max. 20 people per workshop

Required Material

- computers with windows 7 and "TI Code Composer Studio" installed
- bring an own USB stick is recommended to ease the workflow

Agenda

- presentation about myself and my background
- short outlook to career paths in electrical engineering
- introduction to microcontrollers
- basic C coding step by step (main part)