

# Microcontroller Programming and Debugging

## Inhalt

The topics will be:

- Compiler tool-chain and assembler
- Programming language C
- Coding guidelines
- Embedded software architectures
- Modell-based software development
- Formal methods
- Other / advanced languages for embedded programming
- Debugging
- Interactions with the copper layer
- Data processing

## Organizational

Due to COVID-19 pandemic the lecture and exercises will be offered online only in this semester.

- Video recordings of the lecture and the exercise will be provided early.
- In frequent intervals (usually between one or two weeks), a set of videos covering one particular topic is assigned to be watched
- Questions concerning this set can be sent in up to a specified deadline
- Shortly after this deadline, a video with answers to these questions will be put online
- Depending on our experience with this scheme, we may additionally provide particular live classes

## Dates

- Written examination: 20 August, 11:30-13:00 (AH III)
- Retake: 18. September, 14:30-16:00 (AH II)

## Tutor

- [Mateusz Buglowski, M.Sc. RWTH](#)

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