inf360 - CurrentTopics in 'Hardware/Software Systems' I

Module name
CurrentTopics in 'Hardware/Software Systems' I

Module code
inf360

ECTS credit points
3.0 KP

Workload
90 h

Used in degree programmes
- Master's Programme Computing Science > Mastermodule
- Master's Programme Embedded Systems and Microrobotics > Akzentsetzungsmodule

Contact person
module responsibility
- Andreas Hein
- Wolfgang Nebel
- Die im Modul Lehrenden

authorized examiners
- Andreas Hein
- Wolfgang Nebel
- Die im Modul Lehrenden

Prerequisites

Skills to be acquired in this module
This module integrates current developments in the field in adequate study courses.

Professional competences
The students:

- Define and contrast a computer science part, in which they are specialised, in detail or evaluate computer science in general
- Recognise and evaluate applied techniques and methods of their subject and are aware of their limits
- Identify, structure and solve problems/tasks, also in new or developing subject areas
- Apply state of the art and innovative methods to solve problems, if necessary from other disciplines
- Are aware of the current limits and contribute to the development of computer science research and technology
- Discuss and evaluate recent computer science developments

Methodological competences
The students:

- Examine tasks with technical and research literature, write an academic article and present their solutions academically
- Evaluate problems/tasks, including new or developing subject areas of their discipline and apply computer science methods for solutions and research
- Schedule time processes and resources

Social competences
The students:

- Communicate with users and experts convincingly

Self-competences
The students:
- Pursue the overall and special computer science development critically
- Develop and reflect self-developed hypotheses to theories independently

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