**EXAMINATION OFFICE IU.DE**

ADVANCED WORKBOOK

Course assignment: DLBINGSD01 – Smart Devices I

# Please review the validity of these workbook assignments in the course on myCampus.

**Assignment 1: Processor performance in the industry**

Using three examples, describe which applications in industrial manufacturing will become possible as a result of an expected improvement in the processor performance of smart devices in the future!

# Assignment 2: Smart device adaptability

Name five limitations with regard to the adaptivity of common smart devices that you perceive in your everyday life. How could these limitations be overcome?

# Assignment 3: Smart sensors

Which three applications of smart devices in your everyday life could be managed better if regular sensors were replaced by smart sensors with enhanced functionality? What might this solution look like in the overall context of the system?

# Assignment 4: Open Core Interface

Name an application from the industrial environment that requires an Open Core Interface architecture for communication? What are the specific interfaces for this application?

# Assignment 5: Gesture control

Which applications of gesture control of smart devices do you actively use, and which other applications would you like to see in everyday life? Using an example, describe why you think there is no technical implementation so far?

# Assignment 6: Ubiquitous systems

In your opinion, what are the reasons why ubiquitous systems have not yet become even more widespread? Can you name three specific actions you think should be taken to do this?

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