

Vak: Embedded Systems

credits: 5

Vakcode ELVH20AEMB
Naam Embedded Systems
Studiejaar 2023-2024
ECTS credits 5
Taal Engels
Coördinator P.J. Kamphuis

Werkvormen Hoorcollege
 Individueel
 Opdracht
 Practicum / Training
Toetsen Embedded Systems - Opdracht

Leeruitkomsten

The student understands the basics of a microcontroller in an Embedded setting:

- design principals of an Embedded systems in Flow Charts
- GPIO read and write
- Serial communication
- Analog communication
- Project to apply and integrate these techniques
- Show the output data on a platform

Inhoud

This course will take the ESP32 microcontroller as an example
 For serial communication I2C or SPI will be discussed
 Analog communication DAC (write) and ADC (read)
 Project Solar Power meter with temperature compensation
 Show the real-time output data on a output page

Opgenomen in opleiding(en)

Elektrotechniek Major Sensor Technology

School(s)

Instituut voor Engineering

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