CURSUSAVOND 5:

ESPHOME IN HOME ASSISTANT

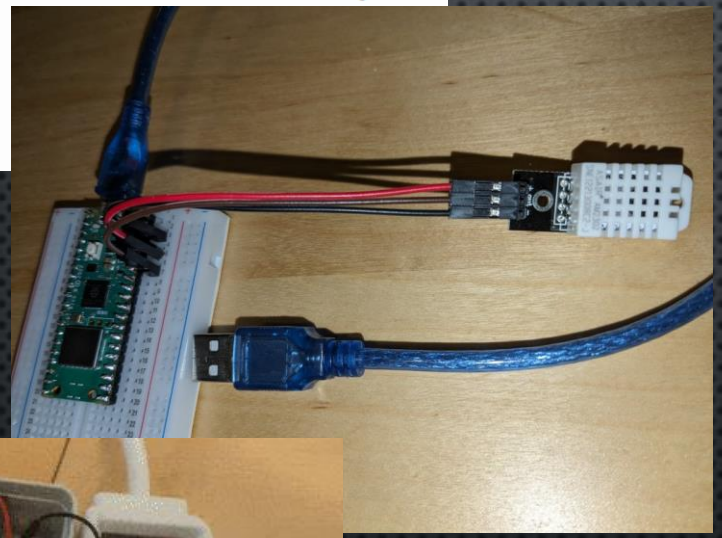
CURSUSAVOND 6: 28 MEI

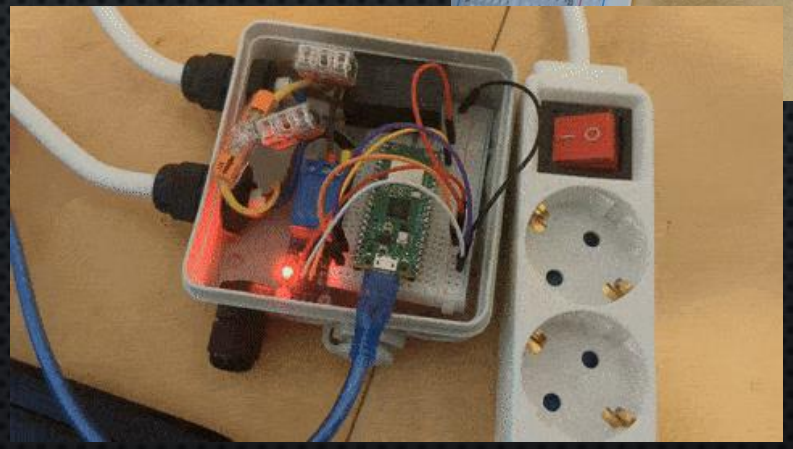
JOEP WEIJERS

VUGHTSE PROGRAMMEERCLUB

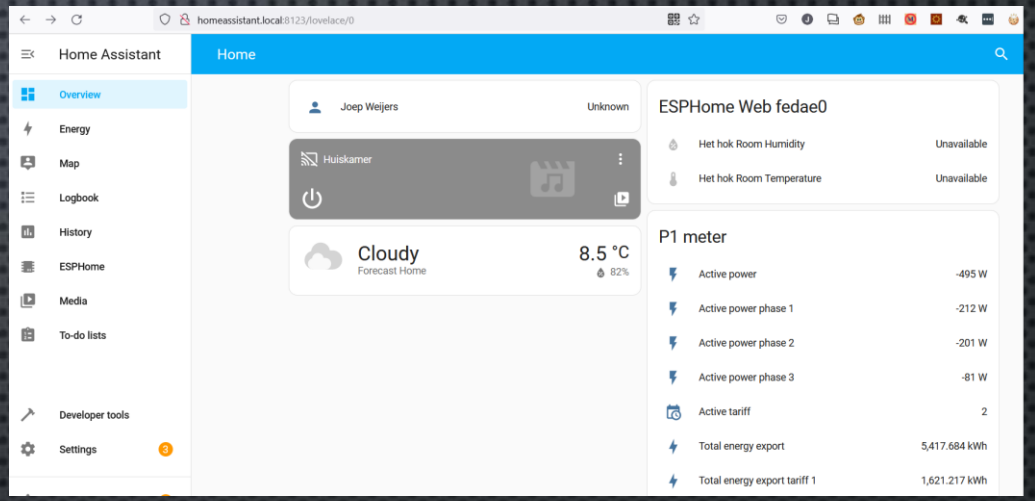
RECAP LES 2 & 3

```
Shell
>>> from machine import Pin
>>> led = Pin("LED", Pin.OUT)
>>> led.on()
>>>
```

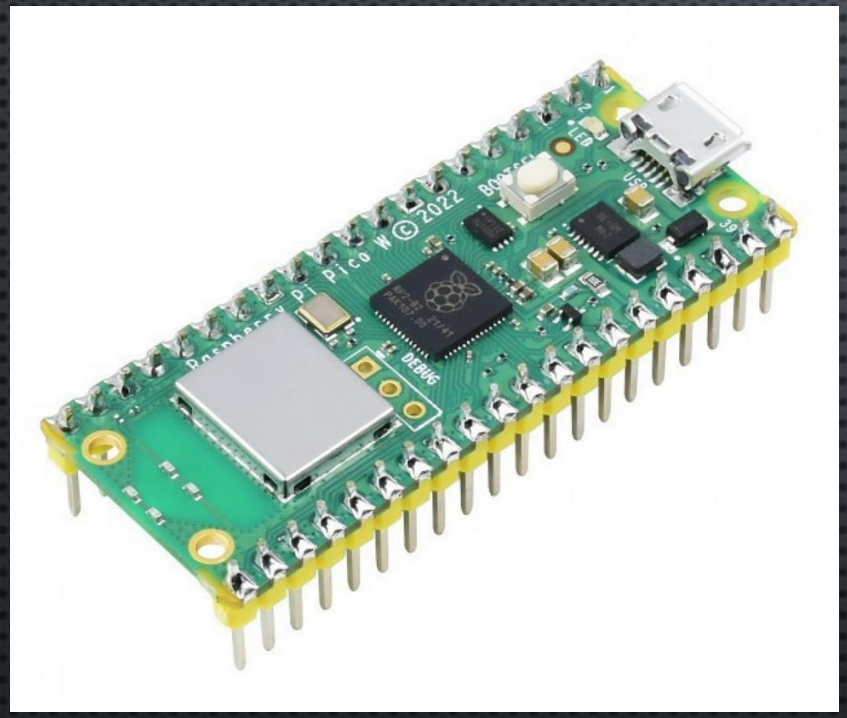




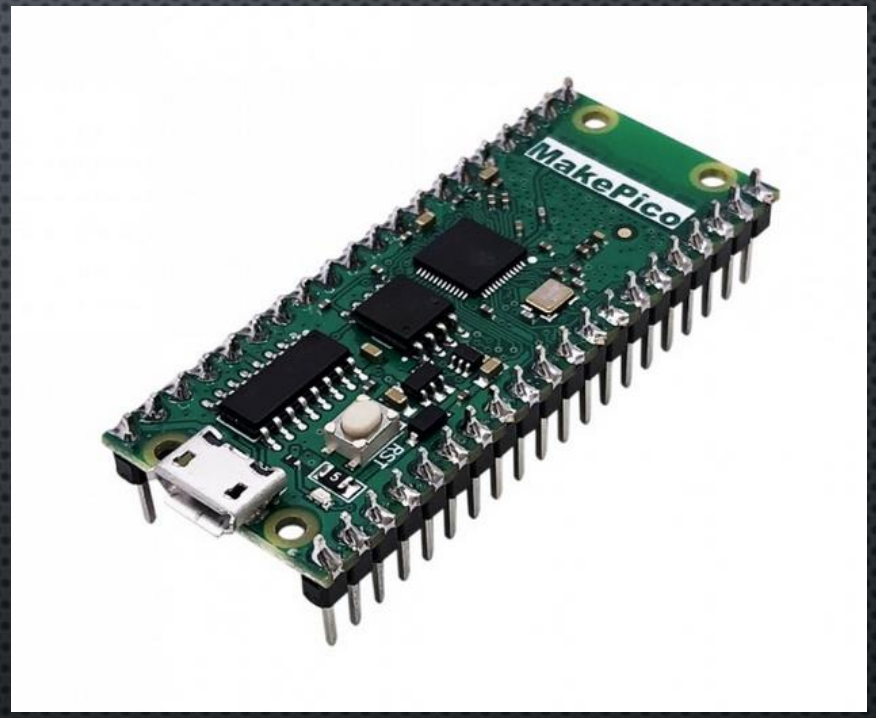
RECAP LES 4



RASPBERRY PI PICO W VS MAKEPICO



RP2040 microcontroller
MicroPython



ESP32 microcontroller
Arduino C++

PROGRAMMEREN VS CONFIGUREREN

Shell

```
>>> from machine import Pin
>>> led = Pin("LED", Pin.OUT)
>>> led.on()
>>>
```

```
sensor:
- platform: dht
  model: DHT22
  pin: GPIO16
  temperature:
    name: "Living Room Temperature"
  humidity:
    name: "Living Room Humidity"
    accuracy_decimals: 1
  update_interval: 10s
```

Imperatief

Flexibeler

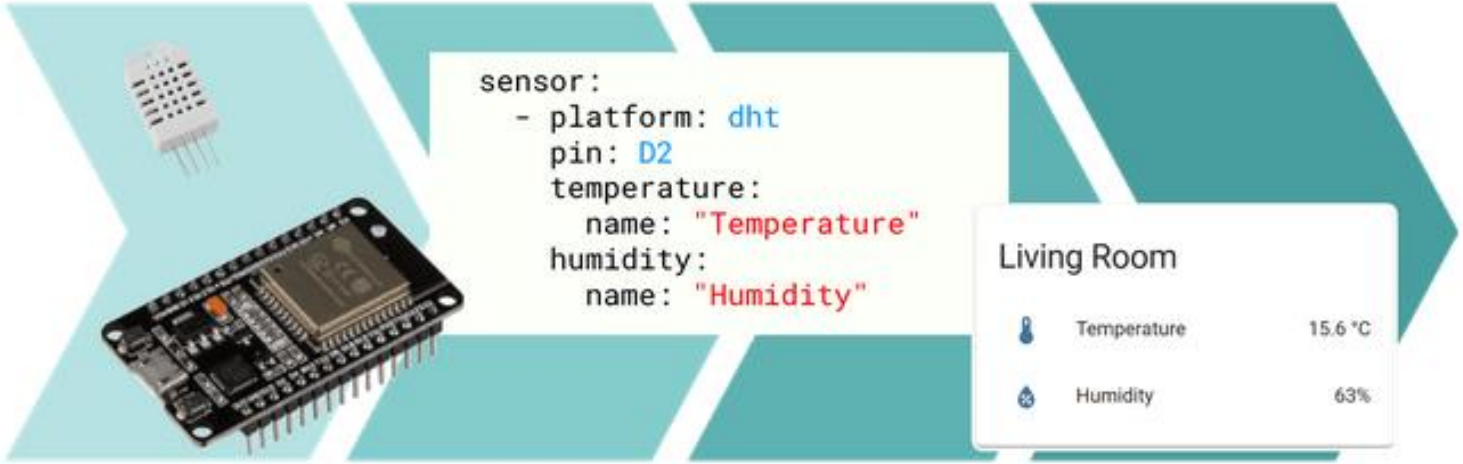
Declaratief

Minder werk

ESPHOME

ESPHome

ESPHome is a system to control your microcontrollers by simple yet powerful configuration files and control them remotely through Home Automation systems.



HOME ASSISTANT INSTALLATIEMETHODEN

	HA OS[1]	Container[1]	Core[1]	Supervised[1]
Automations	✅	✅	✅	✅
Dashboards	✅	✅	✅	✅
Integrations	✅	✅	✅	✅
Blueprints	✅	✅	✅	✅
Uses container	✅	✅	❌	✅
Supervisor	✅	❌	❌	✅
Add-ons	✅	❌	❌	✅
Backups	✅	✅[2]	✅[2]	✅
Managed Restore	✅	❌[3]	❌[3]	✅
Managed OS	✅	❌	❌	❌

VOLGENDE SESSIE:
DINSDAG 28 MEI 20:00

https://github.com/VughtseProgrammeerClub/vpc-iot/