

Tussentijdse Presentatie 2

Air Quality Control Sensor 2



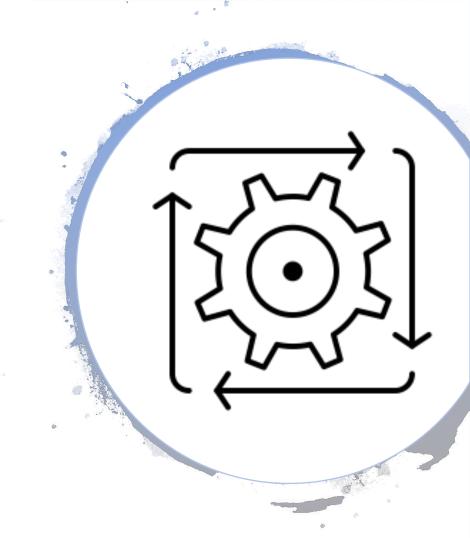


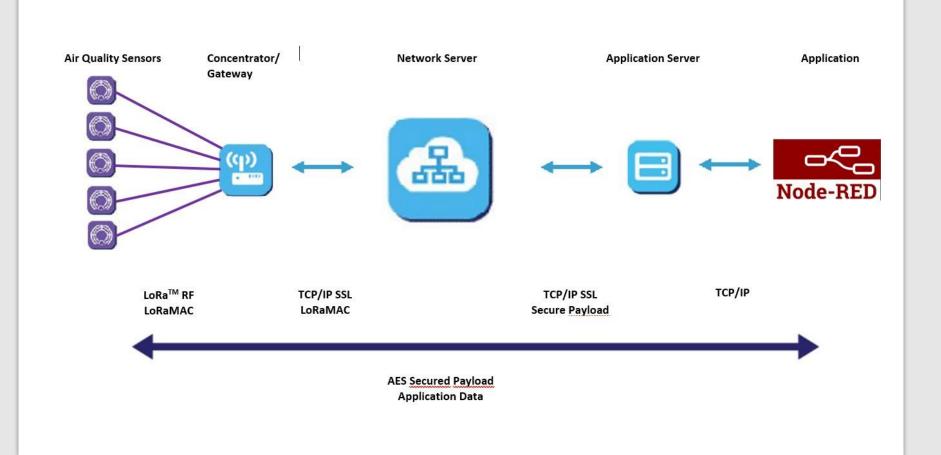


- The Port of Antwerp wil milieuvriendelijker worden
- Hoeveelheid fijn stof over de haven in kaart brengen
- LoRaWAN al uitgerold over de haven
- Sensoren zijn nog niet aanwezig

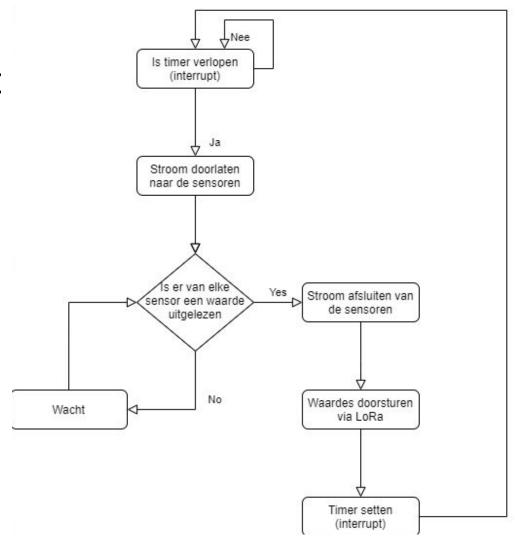
Algemene Workflow

- Uitlezen van sensoren
- opsturen naar de back-end
- weergeven in web applicatie

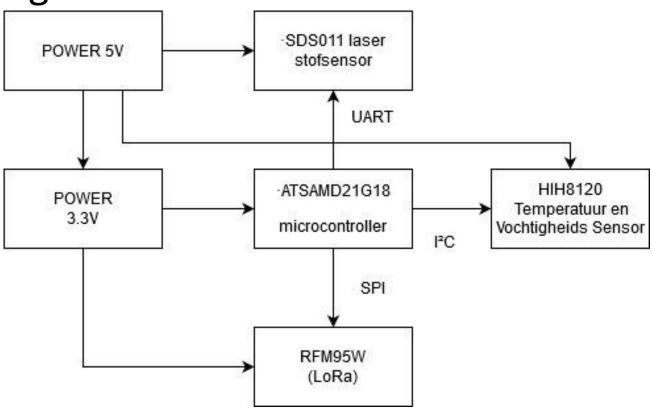


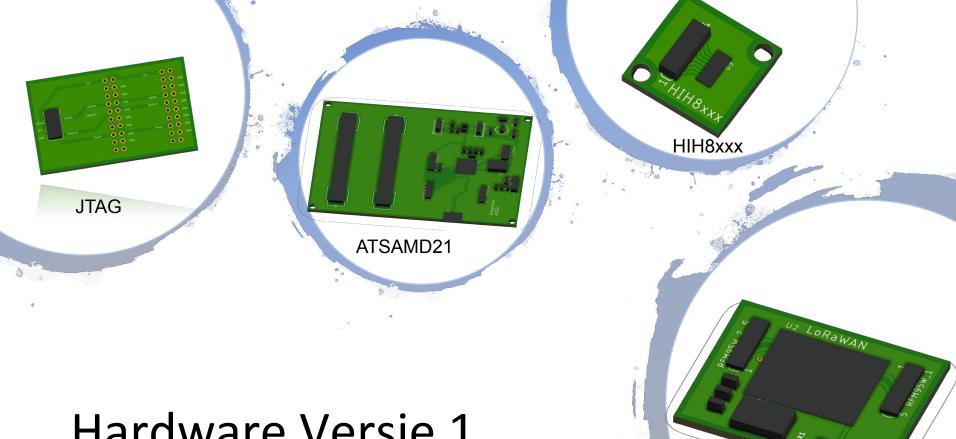


Flowchart



Blok-diagram

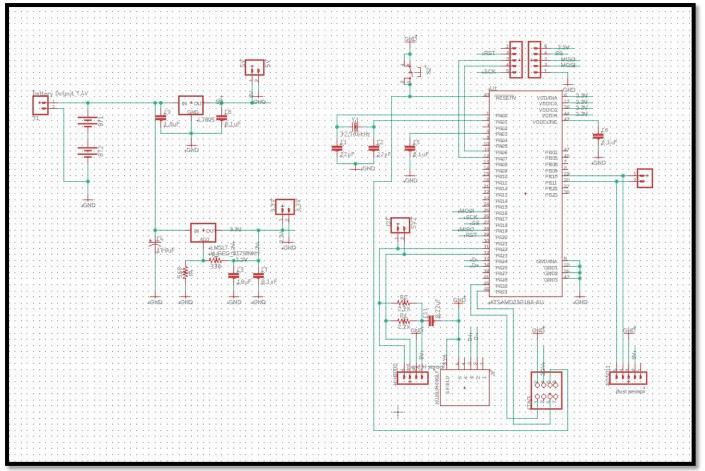




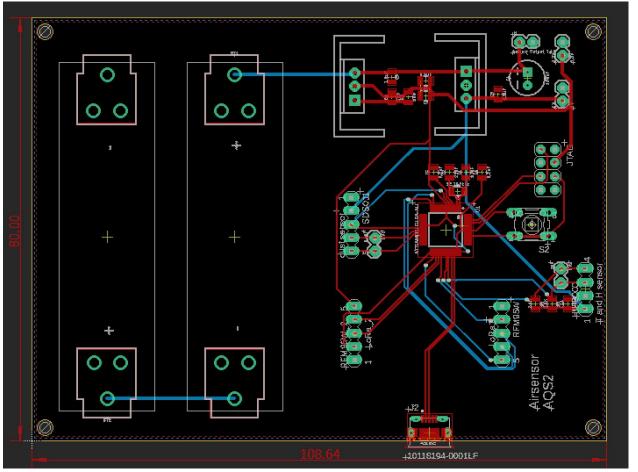
LoRaWAN

Hardware Versie 1

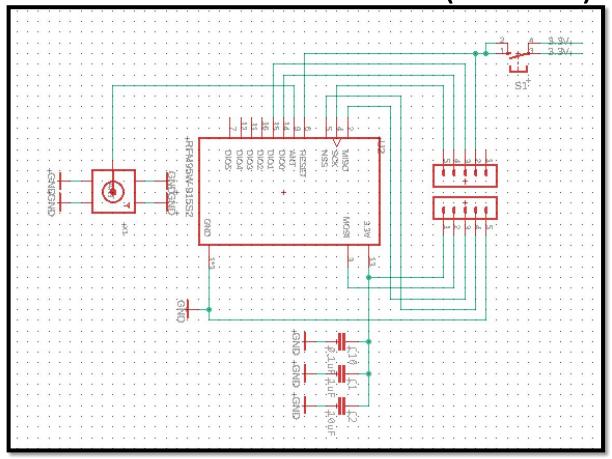
Hardware Schema AirSensor



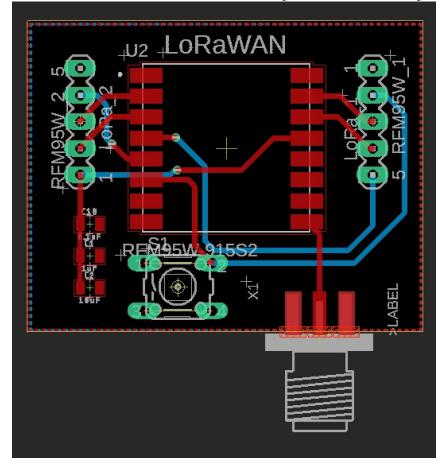
Hardware PCB AirSensor



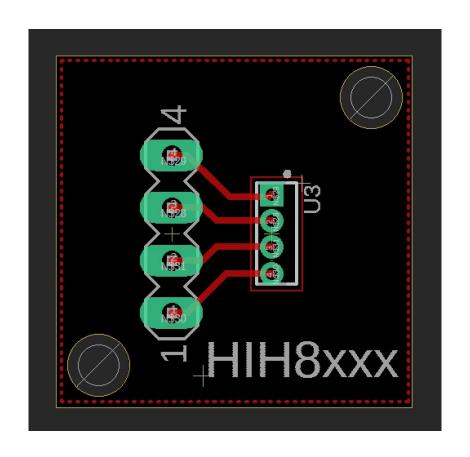
Hardware Schema LoRaWAN (RFM95)

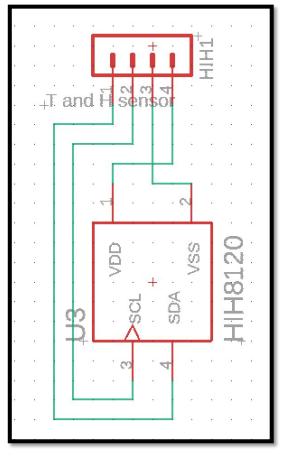


Hardware PCB LoRaWAN (RFM95)

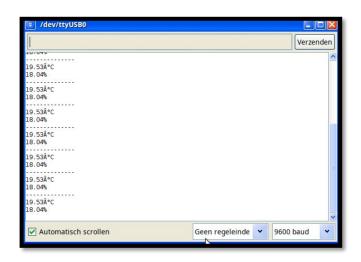


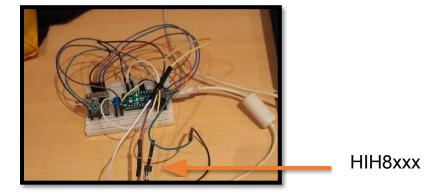
Hardware Schema/PCB HIH8xxx



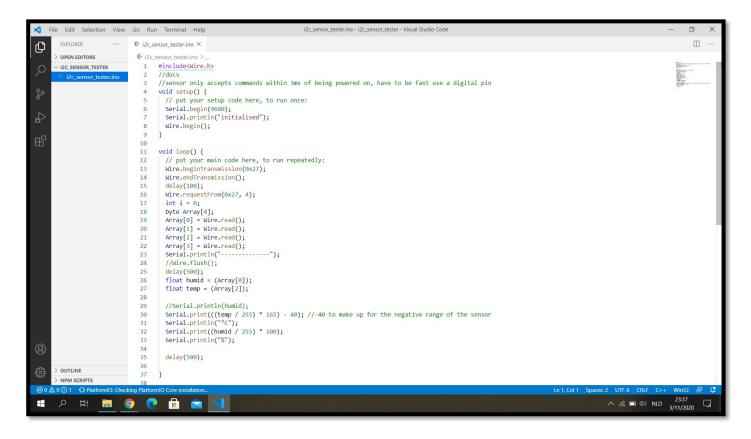


Testen HIH8xxx





Testen HIH8xxx

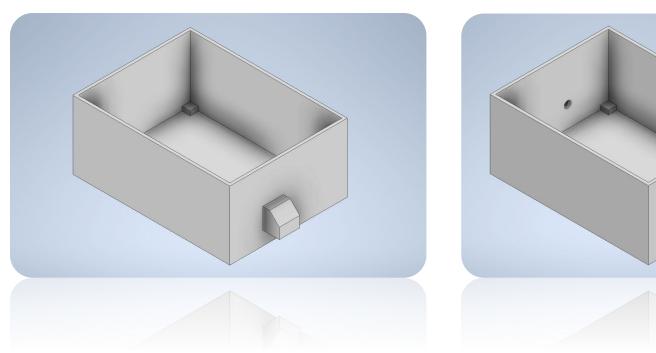


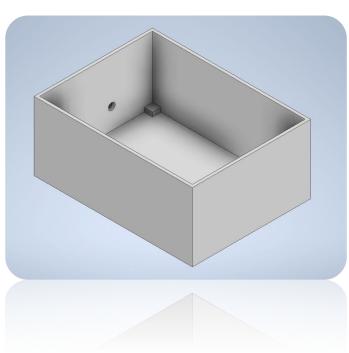
Frond-end

Node-Red application

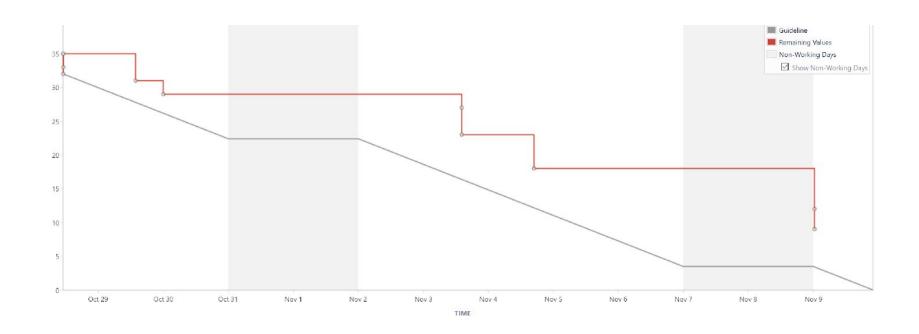


3D Print





Burndown chart



Stand van zaken

- PCB ontwerpen Zonnepaneel □ sprint 4
- PCB solderen ☐ sprint 4