

Bedrijf / opdrachtgever : Solita

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Aantal medewerkers: 30

Aantal IT medewerkers: 29

Aantal technische begeleiders: 3

Afstudeerrichting: Applicatie-ontwikkeling, Systemen en Netwerkbeheer

Opdracht

For two fictive business cases, we have developed an IoT solution in order to show potential customers how we solve problems using state of the art technology. In the first case, we have an airport that wishes to switch to electrical vehicles and use solar panels to power and charge them. They want to be able to monitor the energy levels of their on-location batteries, and of their vehicles, and predict whether their solar output alone is enough to charge them.

In the second case, we have a chemical plant that wishes to monitor and automate

chemical processes. They want to be able to view the status of their plant in real time, but also want to start using this data to automatically control machines

In both cases, you will use a variety of sensors to monitor the situation, collect data into a backend service, display this data and act based on this data.

To help you on your way, we provide a fully working yet incomplete IoT setup with a raspberry pi, that is already connected to a multitude of sensors and sends its data to a backend system. This raspberry pi is running a python script.

In the backend, we are collecting data in an IoT platform called Cumulocity. On this platform, we have prebuilt components to display our data, we can deploy angular applications, and run custom code.

Extra Info

The hardware set up will be provided.

Omgeving

Programmeren: Java, Programmeren: .Net, Andere, IoT Edge

Randvoorwaarden

Solita is an international company, all documentation and presentations need to be in English.

Onderzoeksthema

Disconnected IoT devices

Inleidende Activiteiten: Sollicitatiegesprek, CV

Aantal studenten: 2 studenten

Aanwezig op het Handshake Event:

Stageopdracht voor:

Andere bemerkingen:

Handtekening Stagebedrijf
Jeroen Wanten

Naam en handtekening stagiair