DESSO SMART CARPET

Category
Select one or more of the listed categories that match with the intern position:

- Design Thinking — Strategic Design — Design Innovation — Participatory Design
- Product Design — Industrial Design Engineering — Manufacturing — Computer Science
- Interaction Design — Collaborative Design — Human-Computer Interaction — Information Design — System Design
- Other.

Location of the internship
Waalwijk, The Netherlands

Internship period
September 2017 – January 2018

Application deadline
As soon as possible.

DETAILS

Desso has developed a carpet with foil like sensors that can detect the presence of people. The sensors are force sensitive and are arranged in a grid. The floor delivers a 'weight picture' with coarse pixellization. This carpet can monitor the flow of people in buildings; execute security functions; open doors or turn on lights while being completely invisible. The carpet is ready to connect to the Internet of Things. We foresee many (other) applications for this product and a few demonstrators are available at Desso.

What we have
Desso has basic hard and software for the carpets. The sensors are developed to be cost effective. We can upload customer data to a web based server. The website shows the presence of persons on the floors in real-time. This year we want to install our sensorial carpet at the site of a few customers.

What we do not have and should be developed
A more sophisticated customer interface with advanced functions such as:

- A dashboard for smart office cleaning.
- A dashboard for meeting room presence.
- Other dashboards which bring relevance to our customers.

Customer perspective
Desso wants the customers to be in control of their software and data. Therefore the software must developed as such that customers can extend their website by:

- Adding their own pages.
- Adding their functionalities.

Student’s responsibilities
Design a system that can make the input from the hardware understandable for customers.

The company is offering
Learning advanced and robust techniques. Interaction with our customers, in an industrial setting.

Students are guided by a designer (Bernd van der Stouw) and an engineer (Bert Wagenaar).

CONTACT

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How to apply
Send your CV and motivation to the above-mentioned email address.