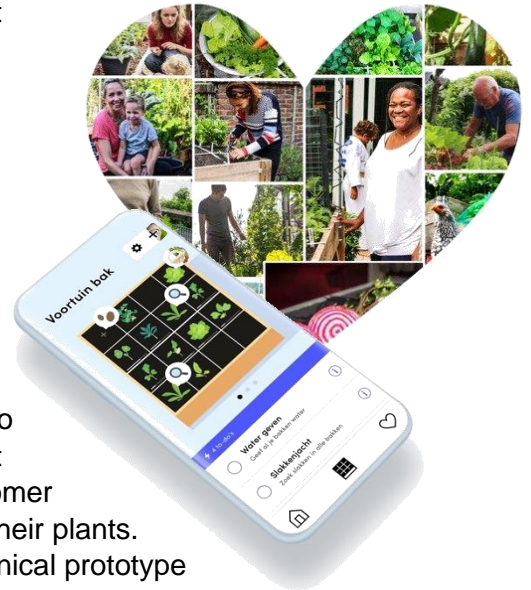


Graduation Product Design of a Kitchen Garden Moisture Sensor

The Mechatronics research group of Saxion started a project Robotizing the households Kitchen Gardens together with MakkelijkeMoestuin & Hoefman Engineering.

Makkelijke Moestuin ([link](#)) is a full service company making Kitchen Gardening easy and fun. It has more than 100.000 customers and fast growing and besides an app helping you throughout the growing process, one can buy hardware, soil, seeds, etc. Hoefman Engineering is involved in the community by supplying a Kitchen Garden box from recycled plastics.

Makkelijke Moestuin is continuously searching for solutions to facilitate their customers in setting-up or maintain an efficient kitchen garden. One of the challenges is to provide the customer with accurate information on when, and how much to water their plants. The mechatronics research group has developed a first technical prototype of the low-cost and accurate soil moisture sensor.



Task description

In order to facilitate the customers of Makkelijke Moestuin, their values, their needs and product requirements needs to be clear

In order to develop the final moisture sensor that fits the end-users needs a market research is required. The student will perform this research with protentional customers to obtain clear user requirements. For example, how affordable should the product be, what level of functionality is required, how should the device be operated, what housing is appealing



Secondly the product and production process needs to be designed. The technical part is taken care of by Mechatronics group. The TPAC and FabLab facilities can be used in order to design the production process, and the full production (thousands) might be done there as well of elsewhere.

Practical Information

Student Profile: Industrial product Design

Duration: September 2020 – January 2021

Compensation: 230 euro per month, before taxes

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