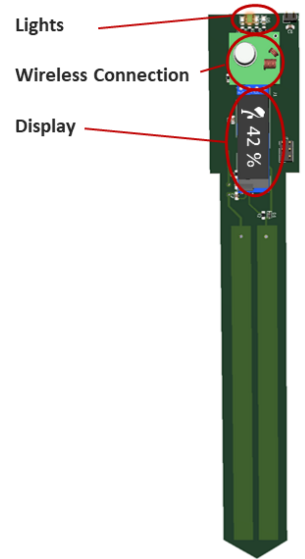


Intern Electrical moisture sensor design for Kitchen Gardens

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

Makkelijke Moestuï ([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 Moestuï 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.



DFRobot



Afafruit



Seed Studio

Task description

The intern assignment is to develop and optimize the sensor further, based upon experimental obtained results.

Parallel to the product design also the manufacturability needs to be investigated with either local (Saxion internal, BenchMark Electronics or external remote) partners. Once an acceptable price is agreed, a pilot-production run needs to be organized and together with the housing assembled. The full production (thousands) might be done there as well or elsewhere.

The end-goal is to have a small batch available for testing with end customers.

Practical Information

Student Profile: Electrical Engineering

Duration: September 2020 – January 2021

Compensation: 230 euro per month, before taxes

Contact Person:

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