Technik & Architektur
HSLU — Lucerne University of Applied Sciences and Arts

Waste management

Milestone report 1: Initialization

Picture space

Team 38

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Team 38

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Summary

TODO

Contents

1   Introduction

2   Process

Concept Phase & System Design (Rough Concept): Using creative and analytical methods, you will systematically develop and evaluate three different solution concepts. These describe fundamental approaches to how the tüftelPark-kit could essentially be realized. You will present these results to the experts from the Tüftelpark.

3   Functional components

3.1   Components

The kit must be based on specific technical basis (TueftelPlattform). The TueftelPlattform consists of:

- Arduino Uno with Grove-Shield
- I2C motor driver board
- Power supply via 7.4V / 1300 mAh Li-Ion battery
- Freely selectable Grove sensors and actuators
- The mechanical components can be made from 4mm poplar plywood (CO_2 laser) and 3D-printed parts
- Optional components from the Stokys range are available

Standard components (e.g. connecting elements, bearings, ...) may also be used.

4   Organisational components

4.1   Dimensions

The system must be designed in such a way that it can be packed in a standard stacking container measuring 60 x 40 x 32.3 cm during PDP and must not exceed a total weight of 20 kg. This is necessary to ensure efficient and safe storage of the prototypes during the semesters.

5   References

A   List of stuff