PROJECT PLAN

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WASTE SEPARATION

Creating a trash can that helps to apply more care



- · Problem Aluminum in the packaging
 - The technical aggregates in the sorting systems can only recognize one material at a time. Therefor, the lid recycling process is usually lost.

- Goal separate the aluminum
 - For this purpose, a trash can be developed, which detects the hidden aluminum by a sensor and than makes it aware by LED's and sound and animates to separate.

STRIKING IN THE DARK

Creating wearables that offer more protection in the dark



- · Problem People are overlooked
 - Especially in the winter time, when it gets dark early, it is more common for people to be overlooked on the streets. There are a lot of ways to make yourself visible in the dark, but most oh them are not considered as nice by many.

- Goal Creating invisible wearables
 - · For this purpose, wearables can be developed. But these wearables should not be recognizable at first glance. When a car or something similar approaches to a person, the wearables should begin to glow at a certain distance.

DRINK MORE!

Creating a bottle that animates you to drink more



CONCEPT

 Often people forget about drinking. About 50% of Germans drink too little. No matter if a bottle is within reach or not. Often no memos help.
Drinking too little brings many consequences, like headaches, dry skin and so on. It needs to be changed!

GOALS

• For this purpose bottle should be developed which draws attention to this problem. In a rhythm of 2 hours the bottle should attract attention. For this, the bottle should get arms, which are filled by a sensor with air and than start to wave. At the same time a suitable tone sounds.

AUDIENCE

- Everyone from young to old
 - Only 52% of I4 to 29-year-olds drink more than two liters a day
 - Only 44% of people over the age of 60 drink more than two liters a day

USEDTECHNIQUES

- 3D-Printing for the cup/bottle itself
- Soft Robotics moving arms
- Electronics sound and maybe LED's
- Laser Cutting creating pattern

MAIN PROBLEMS

- Combining the different materials
- Covering the circuit
- Integrating a pump for the soft robotic part

