



Group 21

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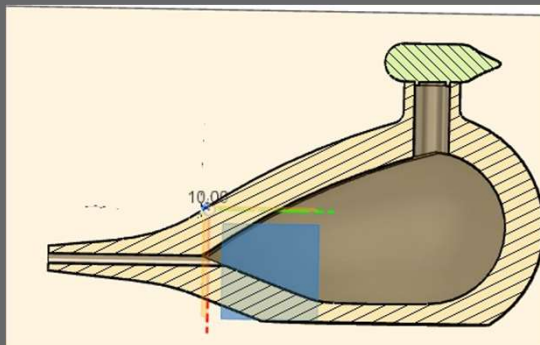
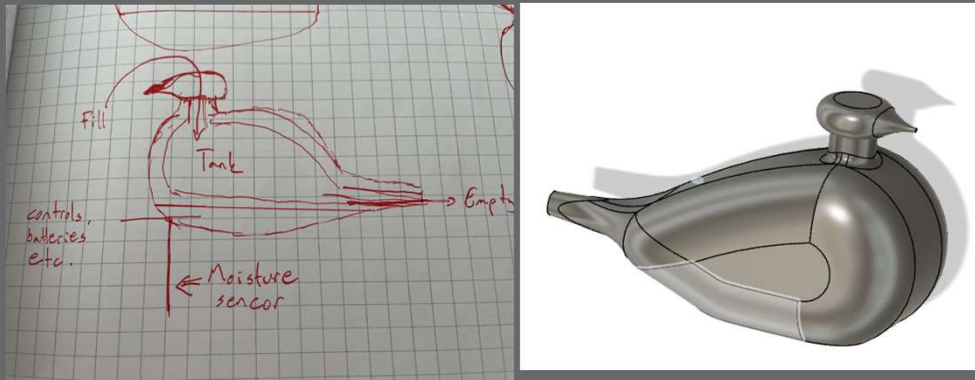


Plant watering system

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Description

- Compact plant watering system
- All parts are integrated in a 3D printed bird-like body
- Body houses a water tank and a pump (upper part) and an electronics suite (lower part)
- System measures soil moisture with a sensor fixed at the bottom
- When moisture drops to a certain level water is pumped for x seconds via hose fitted in "bird's tail"





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Sustainability

- *Has a openable hatch at the bottom so the battery replacement and possible circuit repairs are easy*
- *Refillable, rechargeable*
- *Uses sustainable materials*

Challenges

- *The size of the bird*
- *The power source (Batteries or charger)*
- *Moisture protection*
- *Informing the tank is empty*
- *How to fit every component in the lower part of the bird*

Parts

- Moisture sensor
- Led
- Hose
- Water pump
- Batteries / charger
- Water level sensor?