

# PRINCIPLES OF DIGITAL FABRICATION

FINAL PRESENTATION

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GROUP 20:

ANTONITA ARVANITAKI

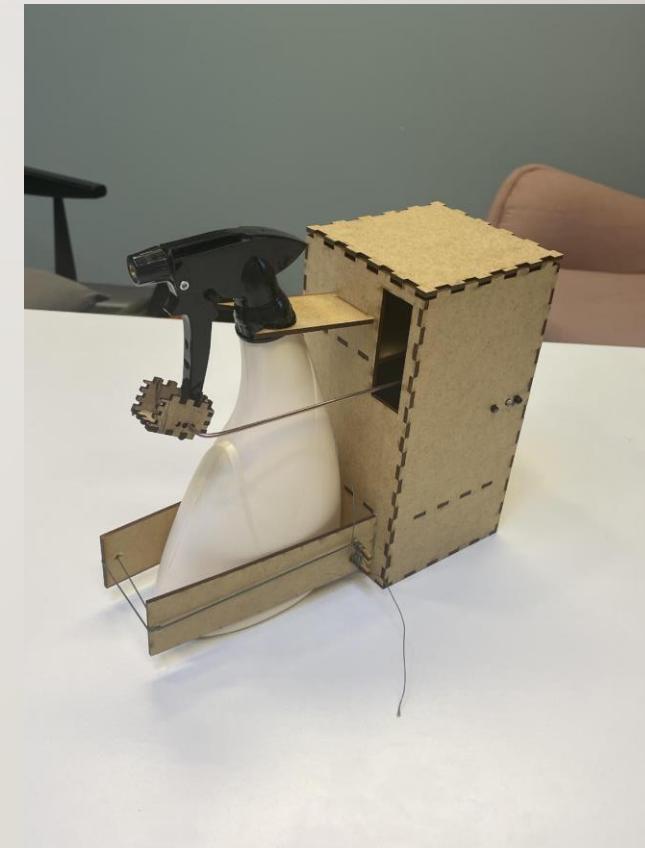
ANIELLO DE SANTIS

ILPO TERVAMÄKI

# DESCRIPTION OF THE FINAL PROTOTYPE

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- **The Spray Refresher**
- It activates a water spray when the temperature is high and when a sensor detects some movement.

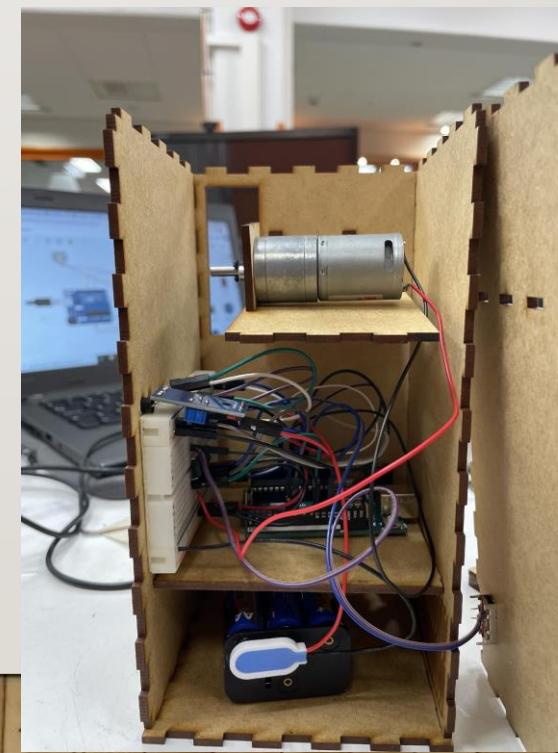
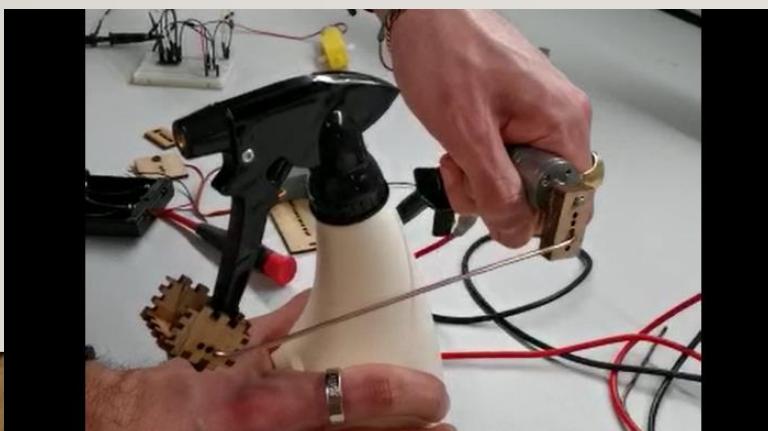


# DESCRIPTION OF THE FINAL PROTOTYPE AND STRUGGLES

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## Main parts:

- Spray mechanism(finger, wire, and shaft mechanism)
- Box of components
- Bottle holders
- Batteries



# PROCESSES USED

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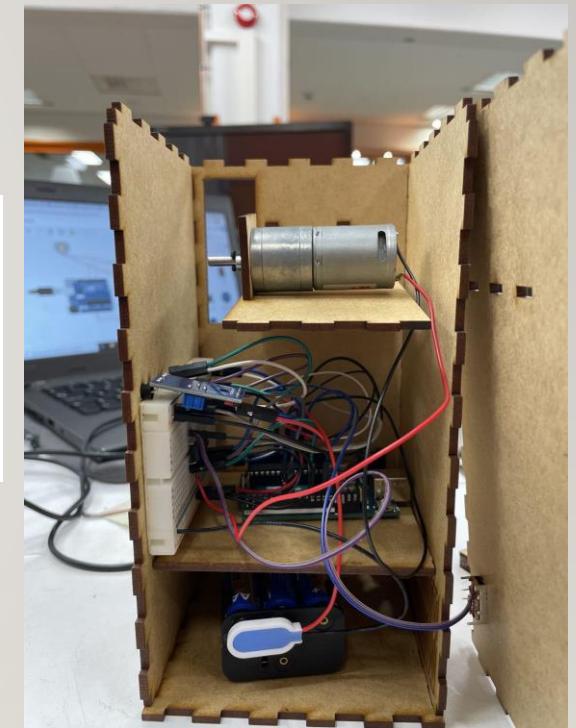
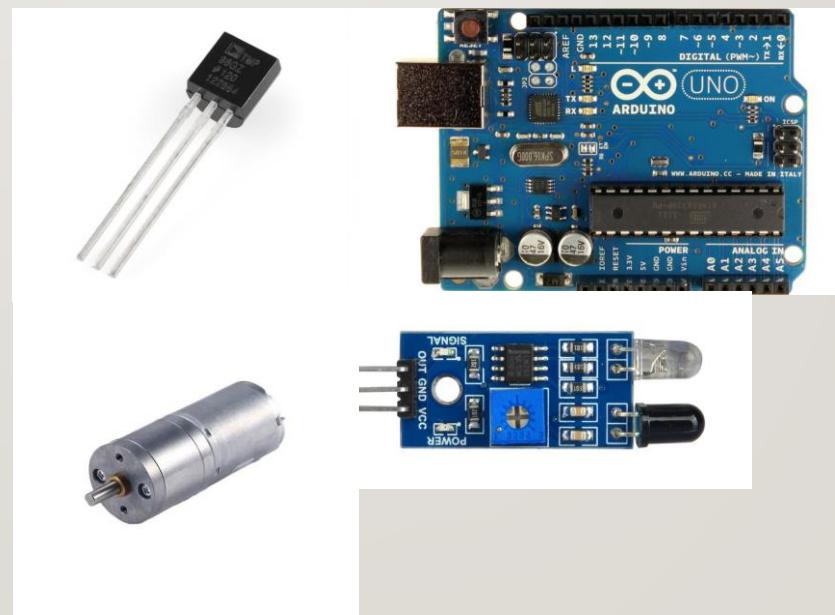
- Laser cutter
- In Electronic Workbench:
  - Power supplier
  - Solder
  - Multimeter



# COMPONENTS THAT WE USED

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- Arduino Uno
- TMP36 sensor
- HW-201 IR motion sensor
- L293D driver
- 12v DC motor
- Six Battery Case
- Six 1.5v Batteries
- Switch slide SPDT
- Wires
- BreadBoard



# SUSTAINABILITY

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- Bottle can be changed
- Used plywood
- Parts are not glued together
- All components can be reused or recycled

# REPORTS AND REPOSITORY

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**Introductory report:** <https://www.digifab-oulu.com/2022/03/28/introductory-report-group-20/>

**Week 12:** <https://www.digifab-oulu.com/2022/03/25/weekly-report-week-12-group-20/>

**Week 13:** <https://www.digifab-oulu.com/2022/03/30/weekly-meeting-group-20-week-13/>

**Week 14:** <https://www.digifab-oulu.com/2022/04/22/weekly-report-week-14-group-20/>

**Week 15:** <https://www.digifab-oulu.com/2022/04/22/weekly-report-week-15-group-20/>

**Week 16:** <https://www.digifab-oulu.com/2022/04/22/weekly-report-week-16-group-20/>

**Week 17:** <https://www.digifab-oulu.com/2022/04/30/weekly-report-week-17-group-20/>

**Final Report:** [https://docs.google.com/document/d/1-y-APLp0ICM\\_NL7oqx\\_4MBvuskjSSe5x/edit?usp=sharing&ouid=112152903226517415486&rtpof=true&sd=true](https://docs.google.com/document/d/1-y-APLp0ICM_NL7oqx_4MBvuskjSSe5x/edit?usp=sharing&ouid=112152903226517415486&rtpof=true&sd=true)

**Repository:**

<https://github.com/AntonitaA/Principles-of-Digital-Fabricaiton.git>

# SPRAY REFRESHER FINAL PROTOTYPE - VIDEO

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**THANK YOU FOR  
YOUR ATTENTION!**