

# PRINCIPLES OF DIGITAL FABRICATION

FINAL PRESENTATION

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GROUP 20:

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ANIELLO DE SANTIS

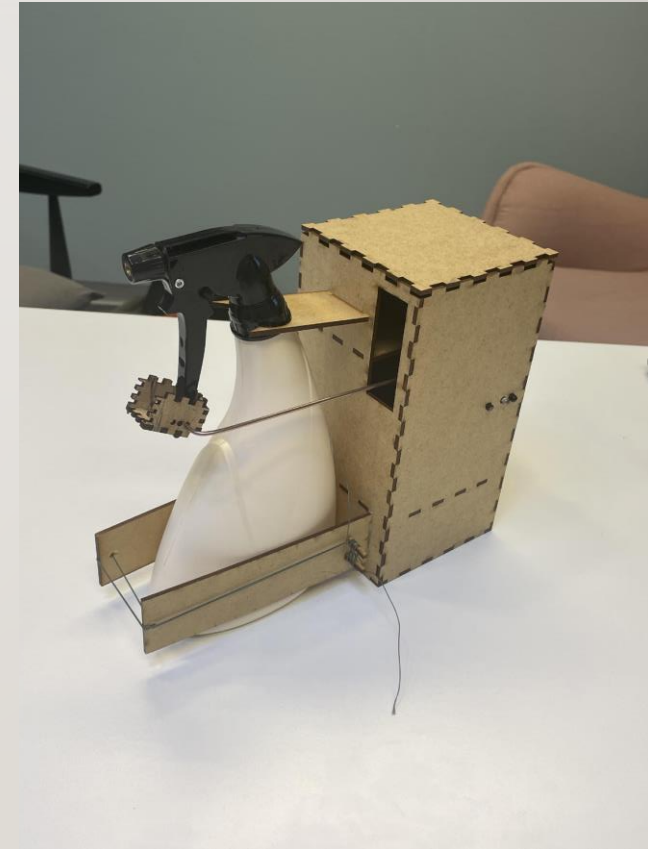
ILPO TERVAMÄKI



# 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.

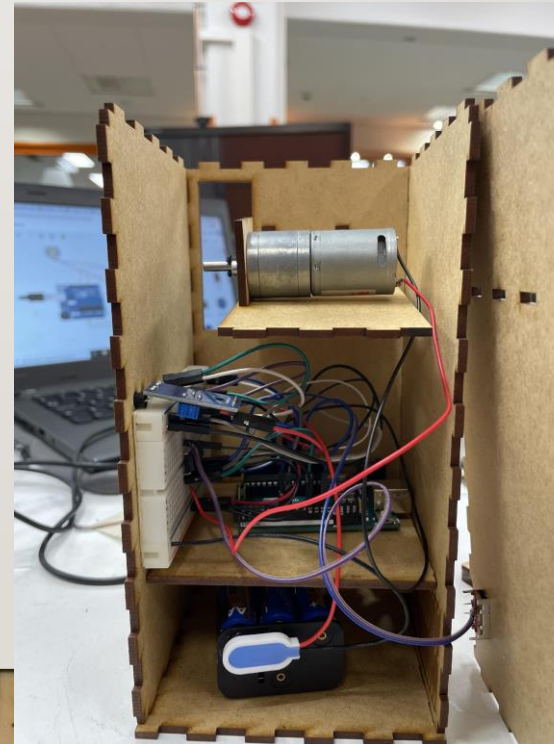
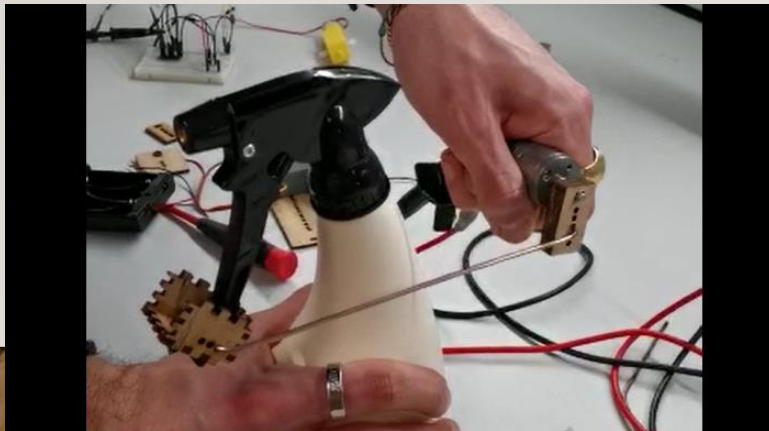


# DESCRIPTION OF THE FINAL PROTOTYPE AND STRUGGLES

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## Main parts:

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

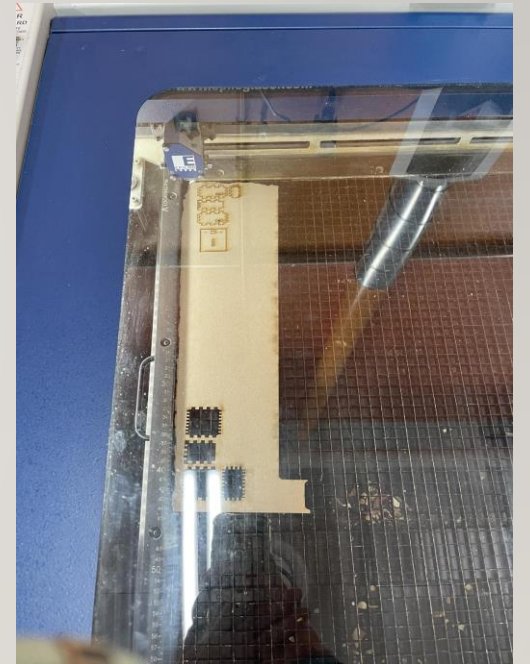




# PROCESSES USED

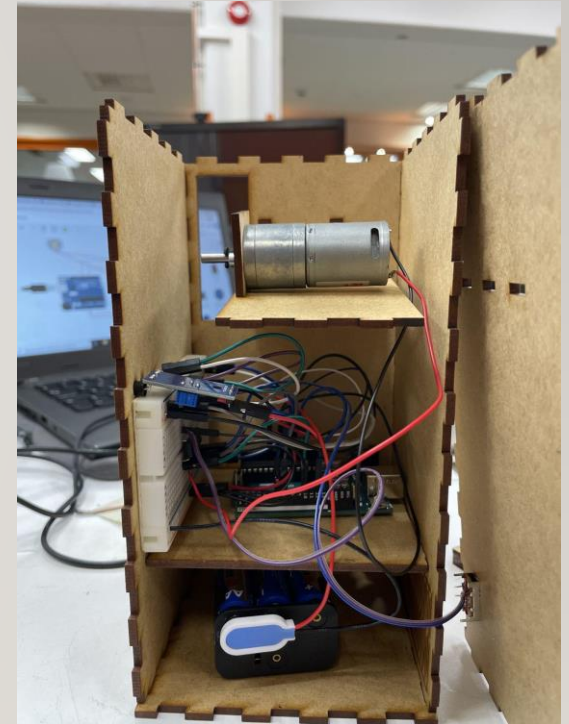
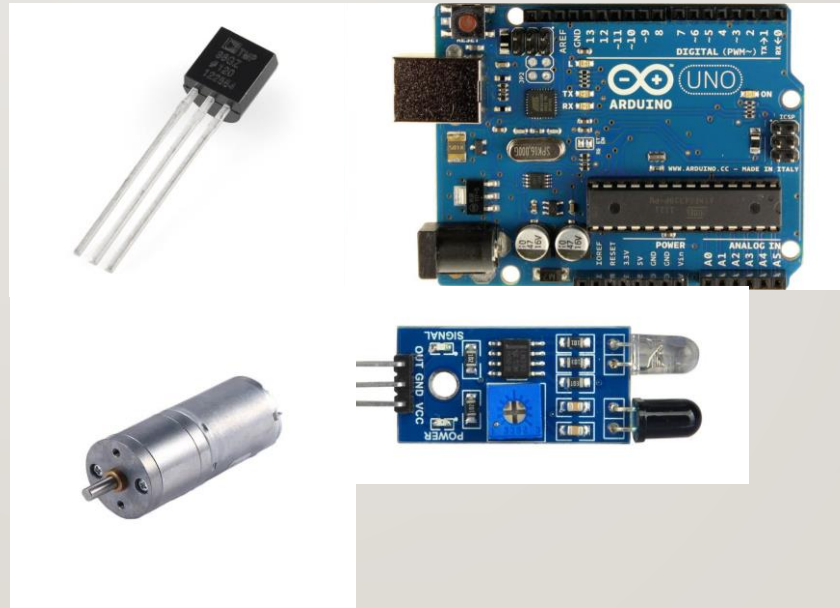
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- Laser cutter
- In Electronic Workbench:
  - Power supplier
  - Solder
  - Multimeter



# COMPONENTS THAT WE USED

- 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/>

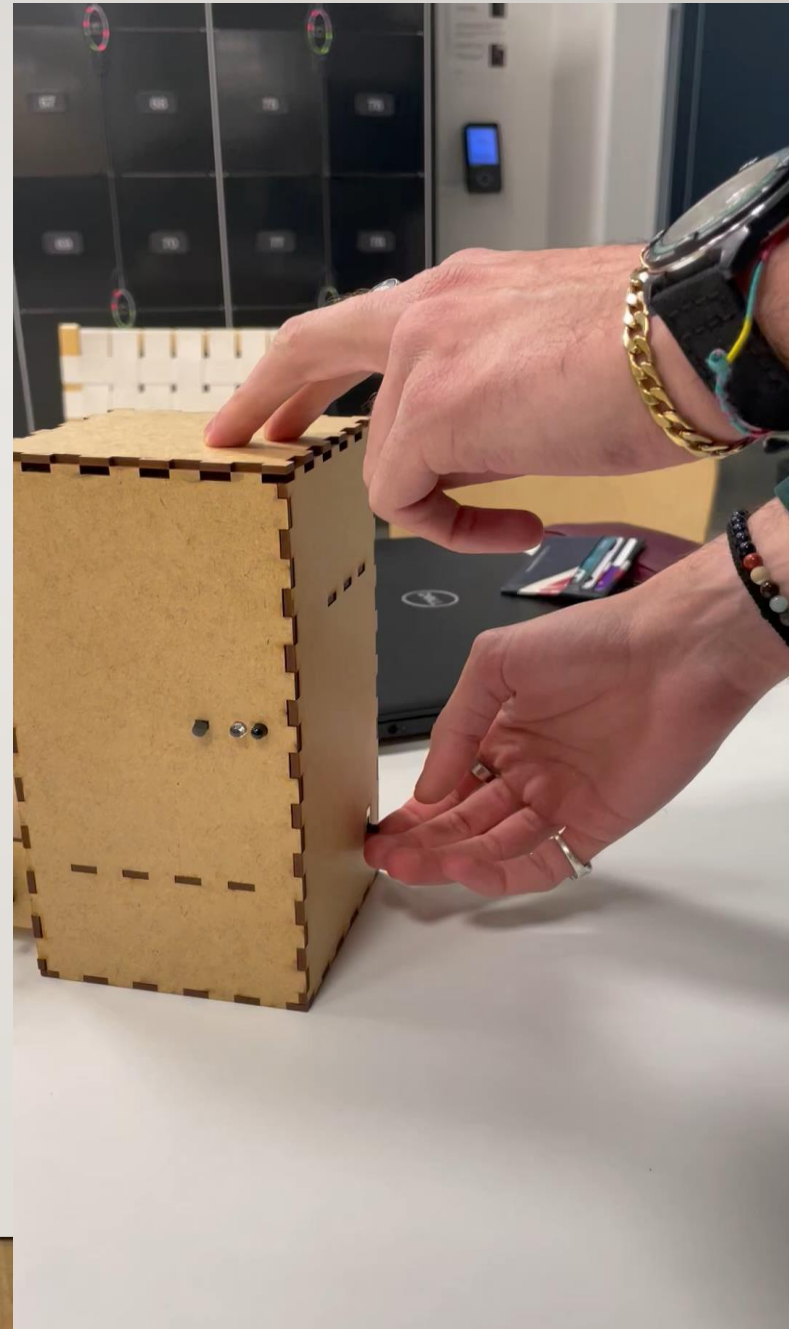
Final Report: [https://docs.google.com/document/d/1-y-APLp0ICM\\_NL7oqx\\_4MBvuskjSSe5x/edit?usp=sharing&oid=112152903226517415486&rtpof=true&sd=true](https://docs.google.com/document/d/1-y-APLp0ICM_NL7oqx_4MBvuskjSSe5x/edit?usp=sharing&oid=112152903226517415486&rtpof=true&sd=true)

Repository:

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

# SPRAY REFRESHER FINAL PROTOTYPE - VIDEO

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**THANK YOU FOR  
YOUR ATTENTION!**