# Report

**SESSION 7** *( 16/02/23 )*

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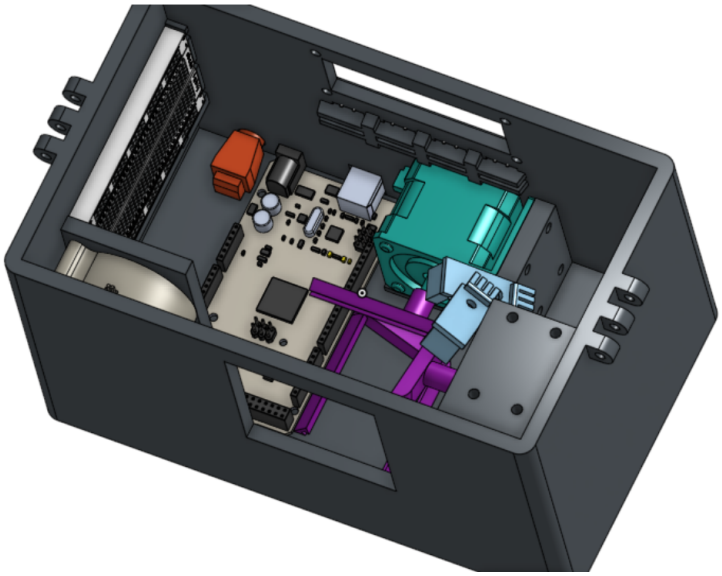
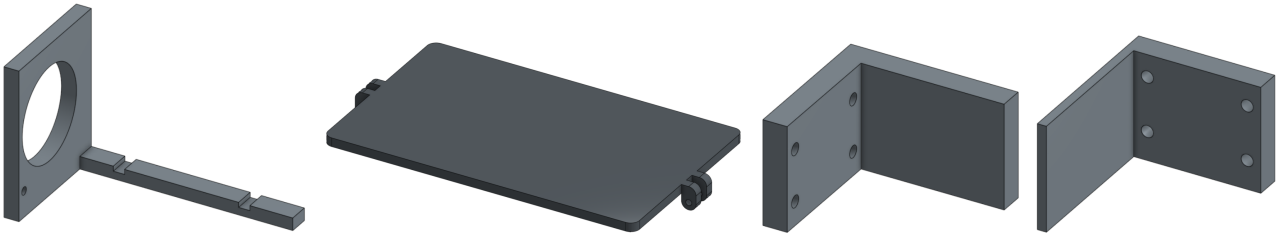
**Before the session**

Before this session, Vahan modeled all the parts of our system on Onshape to have the design of the box and especially to know how all the parts would fit inside. He paid attention to the tolerances so that there wouldn't be bad surprises.
Here is the result, all the plastic parts inside the box will be printed separately to avoid the whole box being defective in case of problems during the 3D printing. They will be glued afterwards.





So we started 3D printing two days before the session.

**Vahan Komaryan & Benjamin Choiselat**

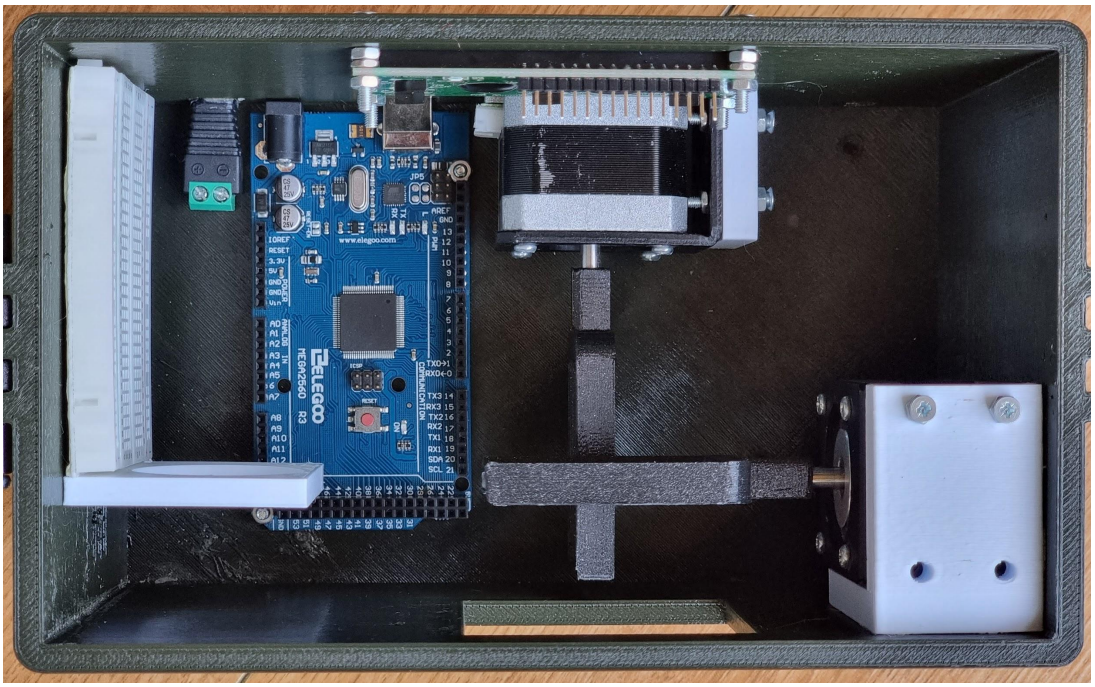
During this session, we first recovered the 3d print of the box and the different parts, and we assembled everything inside: First, we glued the attachments for the stepper motors and the fan.
The power supply wire of the fan came off, so we had to re-solder it.

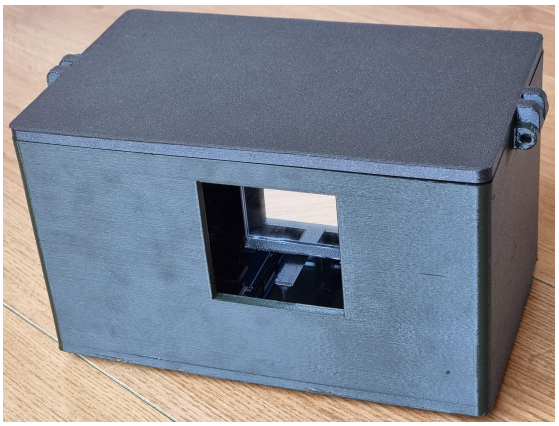
Then we installed the screen in the opening with screws and bolts. For the buttons, we finally decided to just stick them in the holes because they fit well and it will be more convenient to connect them to the electronic board.

We also screwed in the electronic board, with the port for the updates to the outside, and we glued the 12V power port.

Finally, we also temporarily screwed the motors to the clamps to see if everything fit and we hung a breadboard on the left side with double-sided tape.
Screwing the stepper motors inside was not easy, but we succeeded not without difficulty.

**In the next page** you can see the result of the end of the session





For the lid of the box, we found a perfect long screw so we can open it this way :