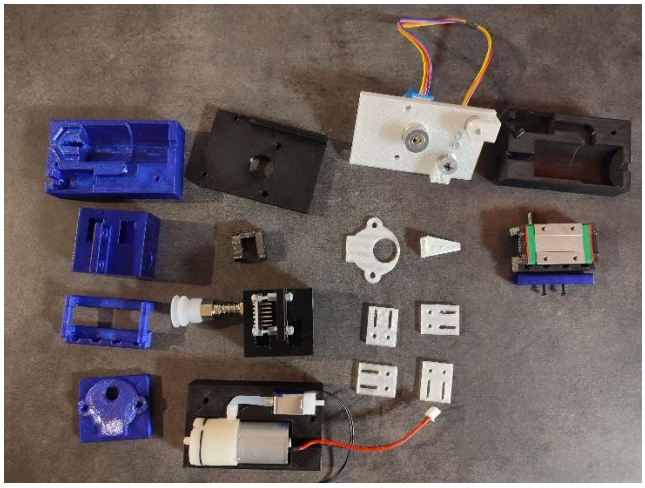
Hendrikse Jérémy

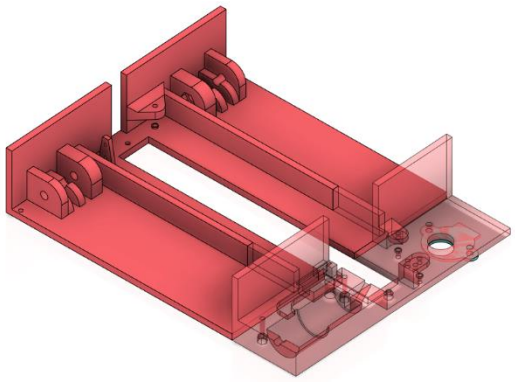
Session report

Before this session I've done a lot of testing because my objective is to print the platform, so I've finished the 3D model of it and started printed small parts and section of it to test them. So, when I print the whole platform which is an impression that can be up to 20 hours long it won't be useless because a screw doesn't fit.



We can see in chronological order from the left to the right the impression to test small section of the platform. The big rectangular one is the support for the vacuum pump, we can even see one iteration with the pump and the valve inside it. The rectangular one but a little bit thicker is the suction cup holder and is fixed on the slider (MGN12H) made from aluminum on the right of the picture. Finally, we can also see the support of the different wheel for the belt and of the stepper driving it. And the small pieces in white are supports for the limit switches.

Today I've had already tested every part of the platform independently and only needed start the impression of the whole platform. After waiting for Frederic JUAN to arrive to have to right preset to print on the bigger printer I've tried to slice my 3D model. But it didn't fit, and I didn't want to try it on the biggest printer because the chances to get a good impression are low. I then started to find a solution to print the platform in two pieces fitting in the Prusa MK4 printer. Frederic came up with the idea to screw a plexiglass plate to assemble the two parts together and give the whole piece a better resistance. Of course, this increases the weight of the platform who already at approximatively 750g



On the picture above we can see the platform split into two parts, one has it opacity a little lower to distinguish the difference.

At the end of the session, I started the impression of the part on the left, after coming back 30min It had failed and needed to be restarted.

Also during this session, I retrieved a new limit switch and welded wires to it and after some testing found out that one of the other switches had a bad weld and caused contact failures.