

Drawings

June 15, 2023

1 Timeline of prototyping

1: Everything started with putting our thoughts into small sketches with addressing the problems of small flats

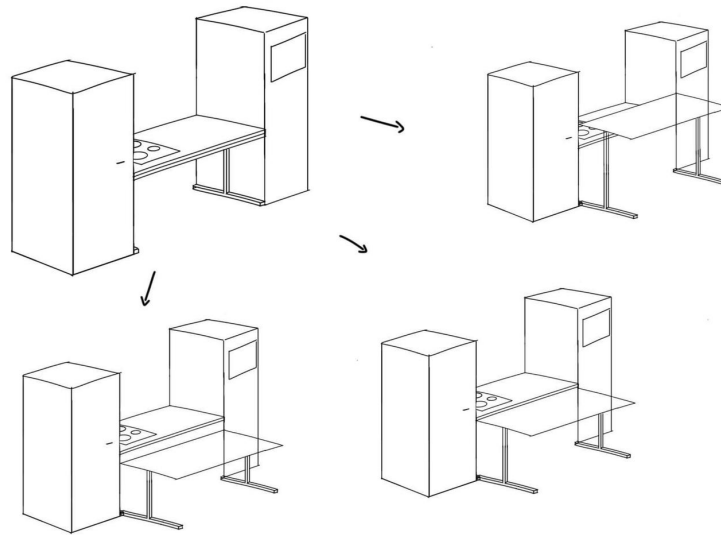


Fig.1: The amplea sketching

2: Jan and Clement were making their individual solution to put the sketches into a manufacturable model with the features we wanted to integrate

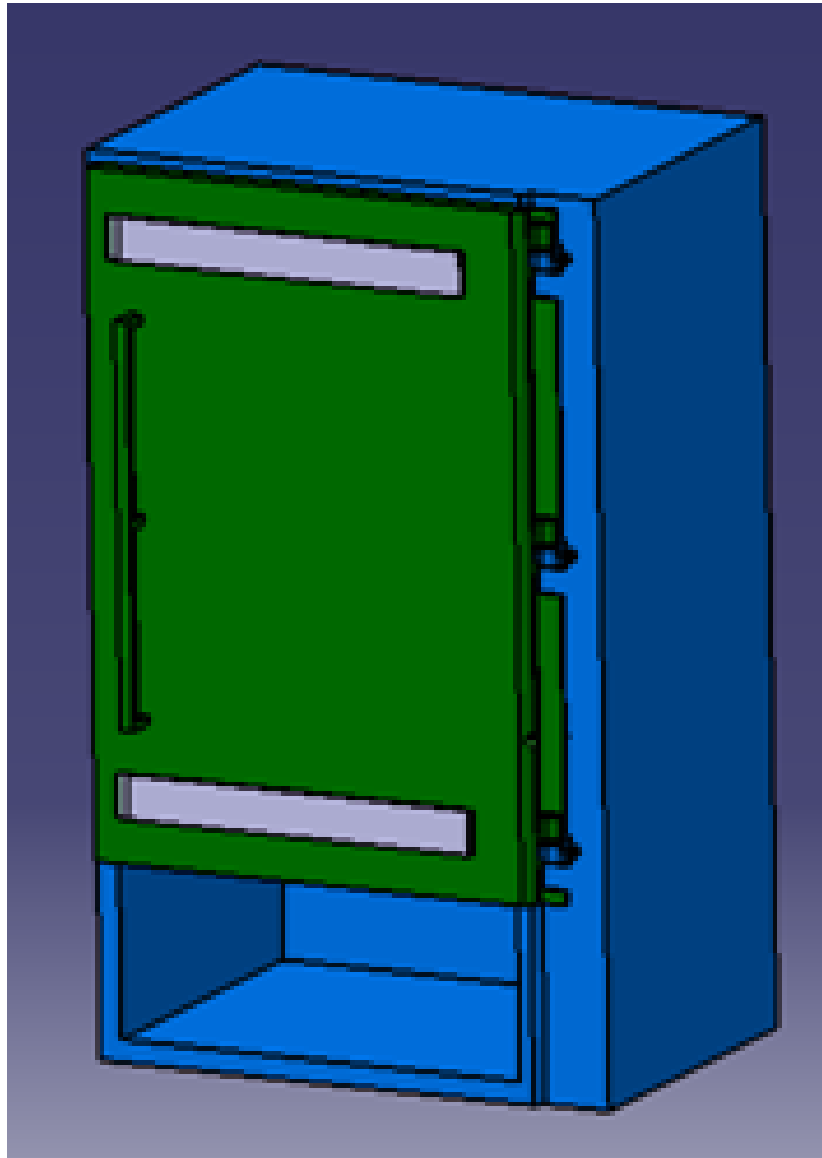
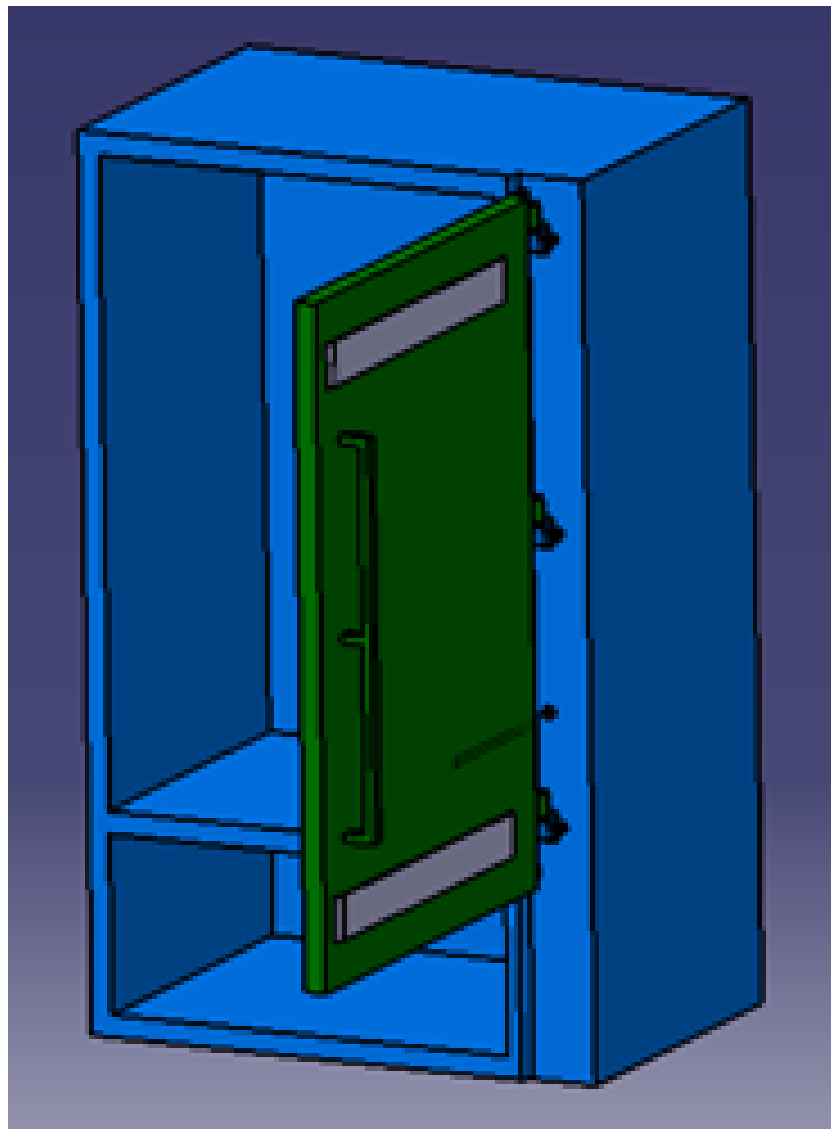
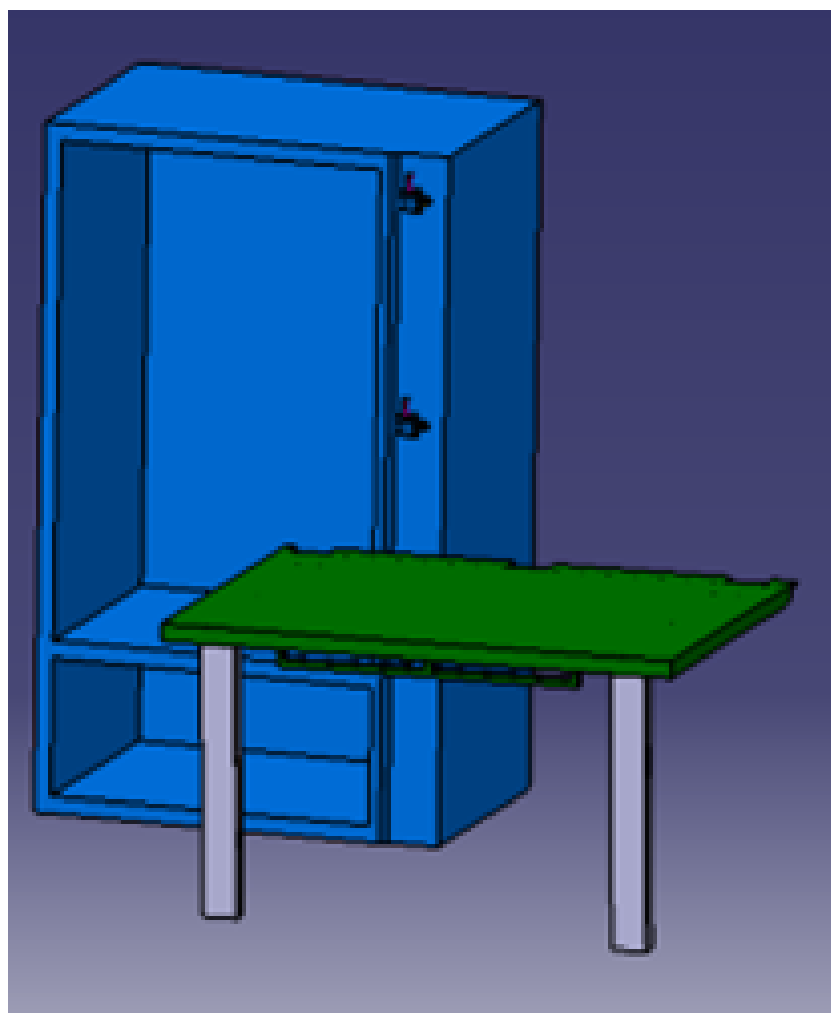


Fig.2: Clements solution





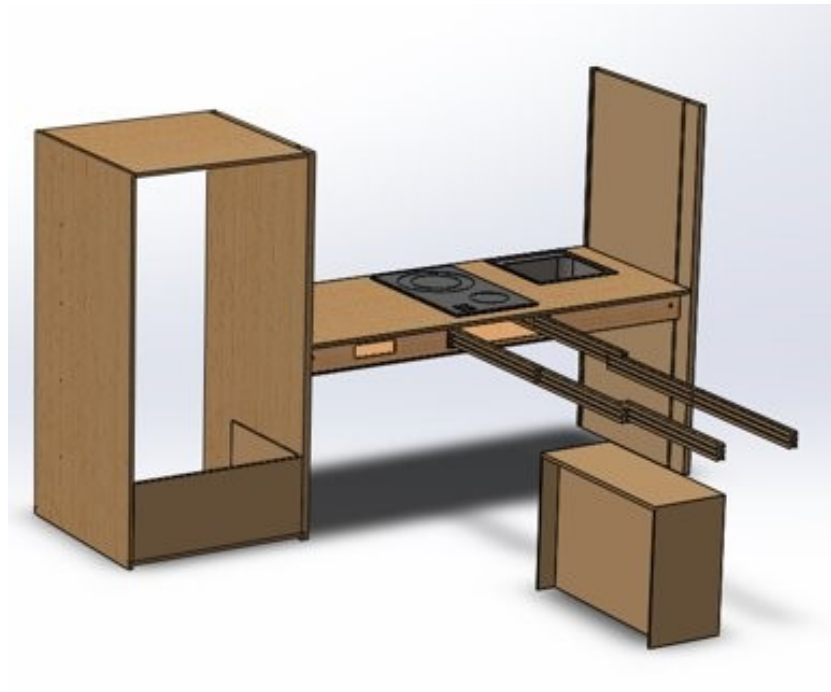


Fig.3: Jans solution

3: After finishing this stage we discussed what features are the most promising of both prototypes and merged them into one model

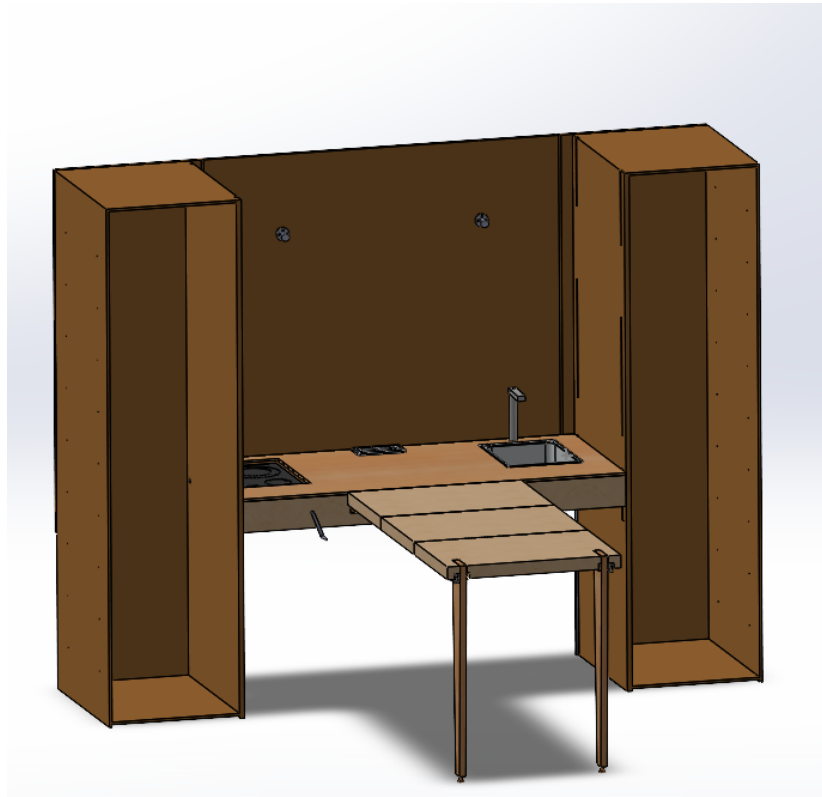


Fig.4: Merged prototypes

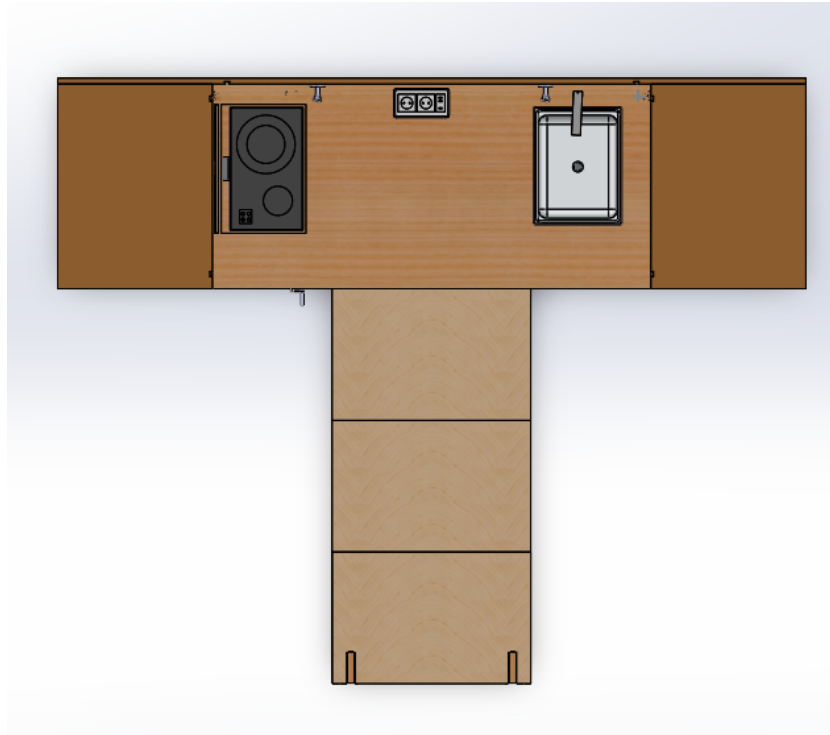


Fig.5: Overview from above

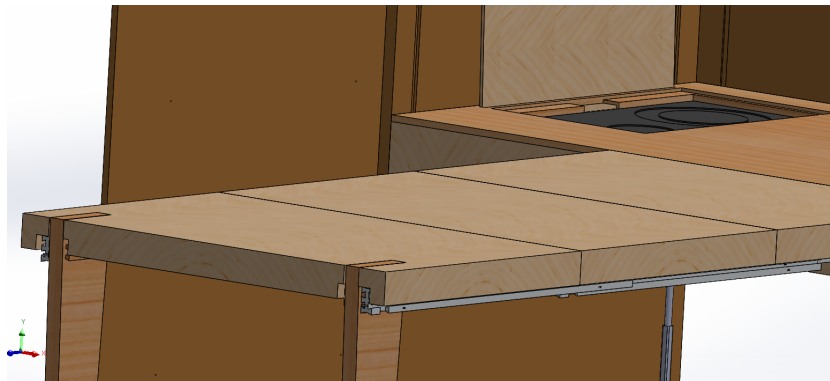


Fig.6: The extendable table

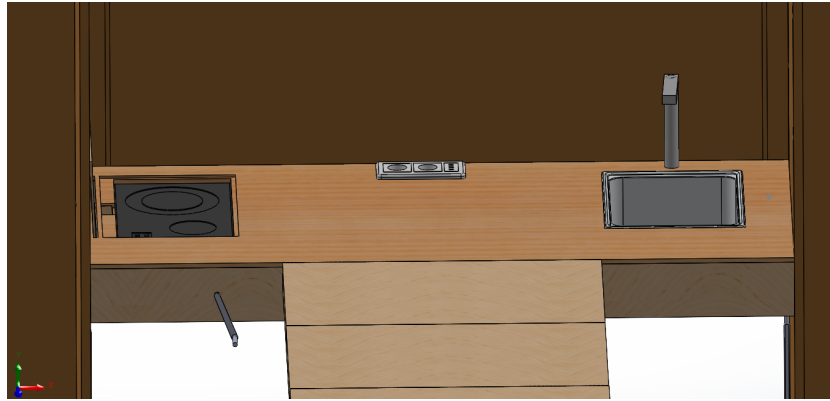


Fig.7: Kitchen desk

4: By optimizing from week to week we ended up with the following prototype of the Amplea

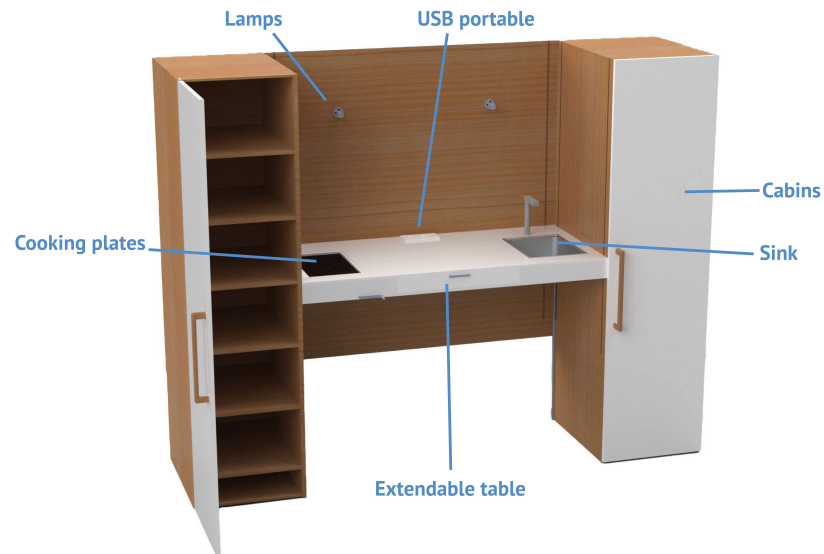


Fig.8: The final prototype with description

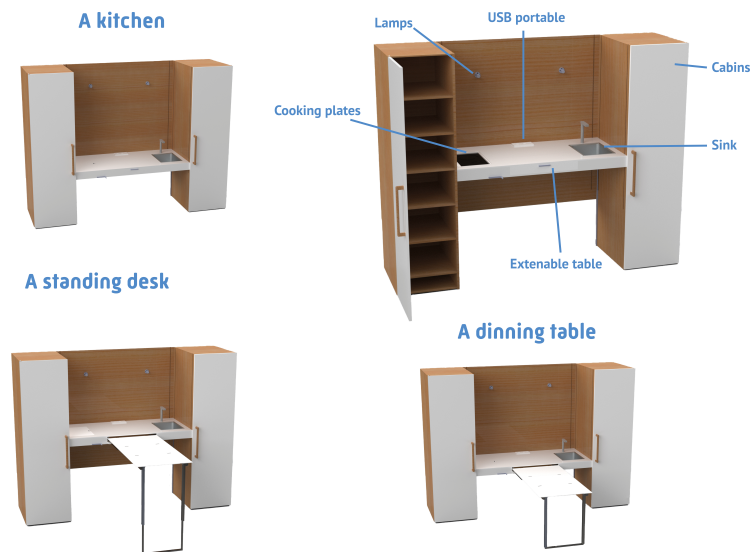


Fig.9: The three possible positions of the Amplea

5: For the 3D-printing we stripped down the model and simplified it

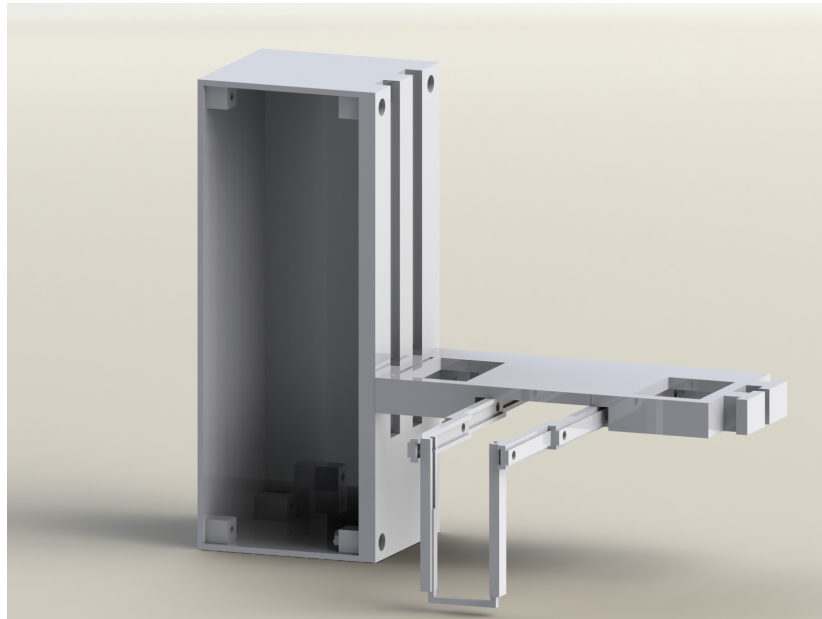


Fig.10: 3D model 1

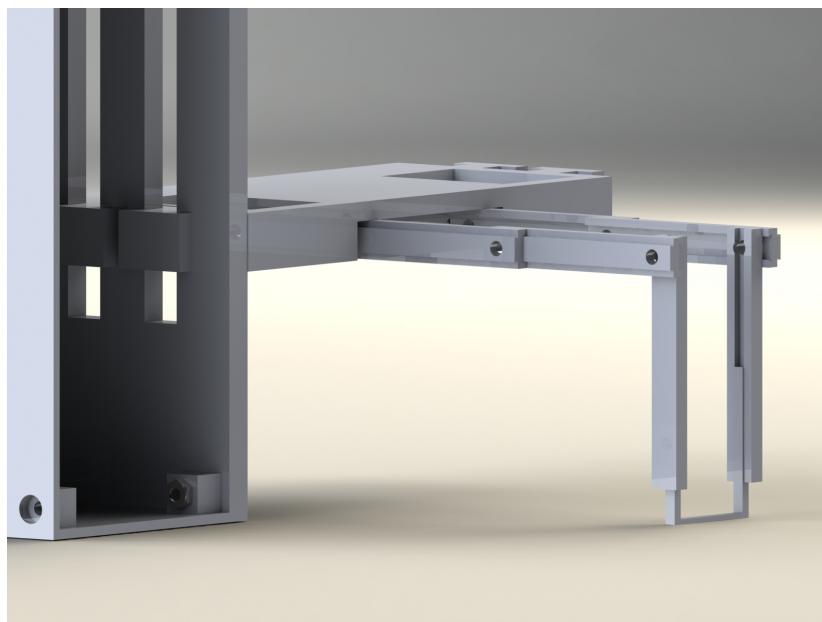


Fig.11: 3D model 2