

Title and author

CAD I

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Introduction/Approach

- Initially, getting accustomed to rhino is not easy to me, I have tried my best all 4 weeks to bring my ideas on rhino by what I have learned from the tutorials. Because of that I have to do one by one by all those command in tutorials which help me a lot with creating the separator.

Methodology

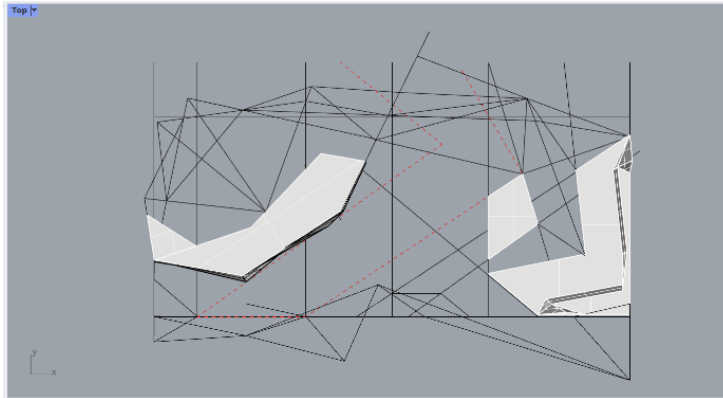
1. Replica

- In the first week, I followed the tutorials to build the replica of Denari's Project. I used various of commands and operations to draw the object. Firstly, I drew the base also the structure of project. I knew how to use command extrude, sweep, trim and plane to create the frame.
- The envelope was the challenging one; I used fillet and loft command to do that. Afterward, I created shape and use trim command to cut out the space for an entrance and a door.
- In the second week, I finalised the replica by making 2D of it in many views and sections with dimension on it. I also managed the layer well to avoid messy in the file.

2. My own project

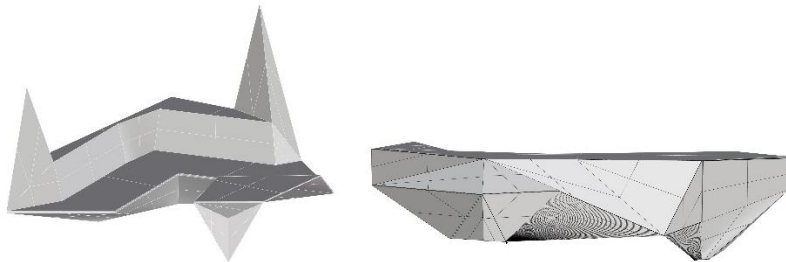
- In the third week, I started working on my project base on the Replica. After planning the idea well, I made the frame of my separator first. It was deconstructism style so I tended to use diagonal lines with no

harmony or rule but have their meaning.

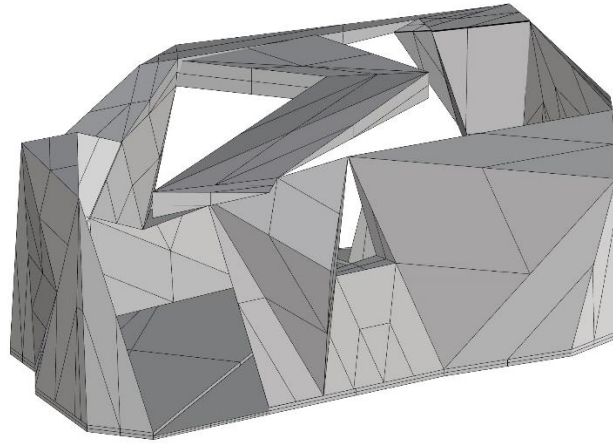


First Sketch

- After finishing the layout, I built function objects that are Reception desk with sofa included table. The desk is kindly difficult because I have to cut off many pieces to have a perfect shape. Besides, I also used plane to create the pattern and extrude all of them to make the shade. About the sofa, I made 2 planes and then using command to link those as a base. Next I created the support and 2 links which linked to the envelopes. The table was easy to me because I just made planes and link them together and that was all.



- Envelopes were the hardest part. I based on the envelope of Denari 's one to build my own, instead of the curves but the lines. I used many lines to make the frame and then put the planes on. I also calculated that was it realistic to build and I thought it would make it. The ceiling was based on the roadway to build and it follow the deconstructivism style.



Envelopes and Ceiling

3. Materialisation

- The main and only material is wood so to avoid boring, I used 3 different colours. I thought 4 colour was exact fit: White for envelopes and furniture, Brown for pattern, Dark for ceiling and floor and Light-brown for pathway. I think it will bring the contrast to the separator and also pleased for people eyes.



Perspective view

Findings/Discussion

- Constructing frame: At least have a consistent language or style, follow it until the end. Choosing point carefully to make the line fit and being aware of plane and direction.
- Layer: Managing layers carefully and detailed. Choosing right layer after drawing.
- Working style: Work smart don't work hard.
- Material: Choosing compatible colours and texture must be clear.

References

1_Denari_Project.pdf. (1993). http://cs.roboticbuilding.eu/pdf/1_Denari_Project.pdf

Neufert, E. (2014). *Ernst Neufert. Neufert Architects' Data Fourth Edition*.
http://cs.roboticbuilding.eu/pdf/4_Neufert_Architects'_Data_Fourth_Edition.pdf

Appendices

