# **Final Major Project**

"Prefab Alternative Shelters For Refugees"

# OUTCOME +

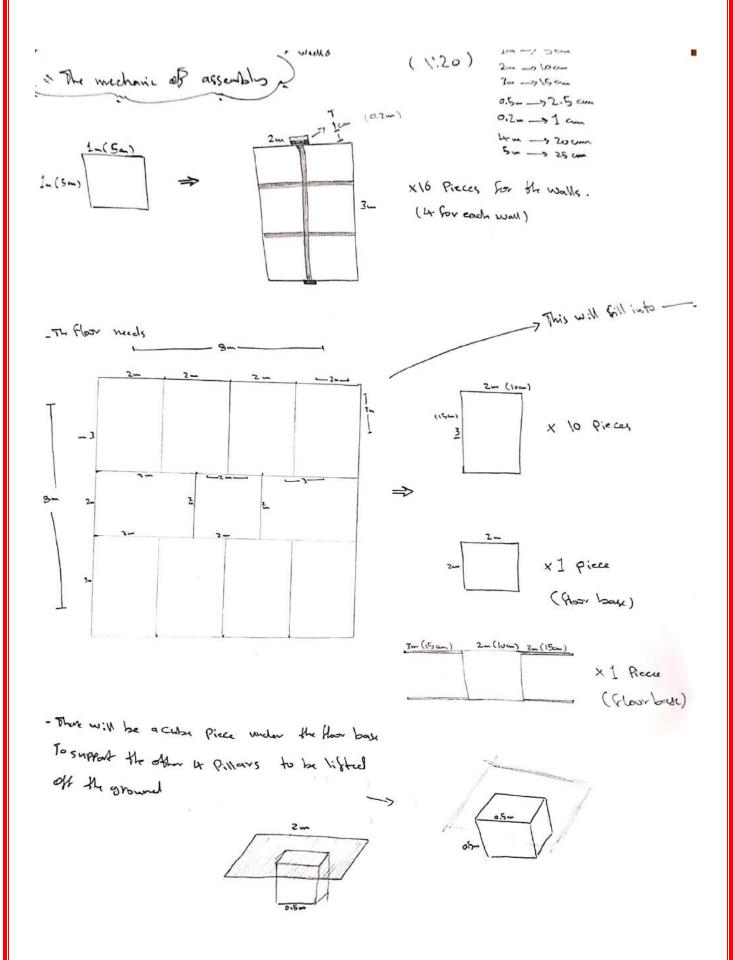
## **3D Design**

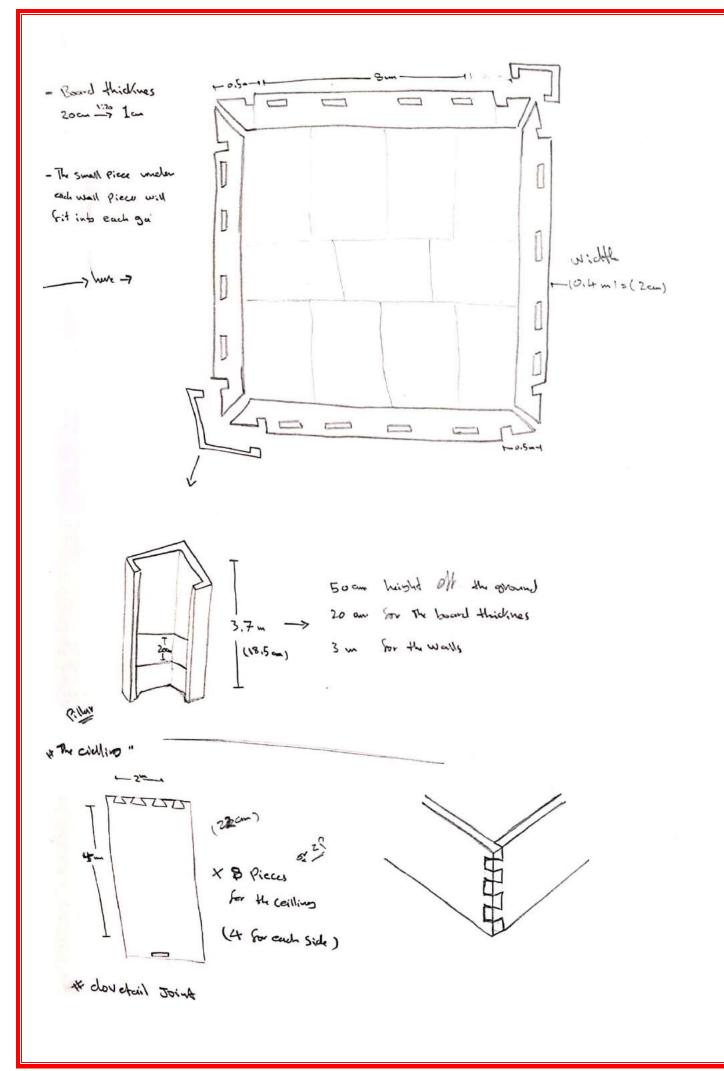
## **By: Muhannad Darwish**

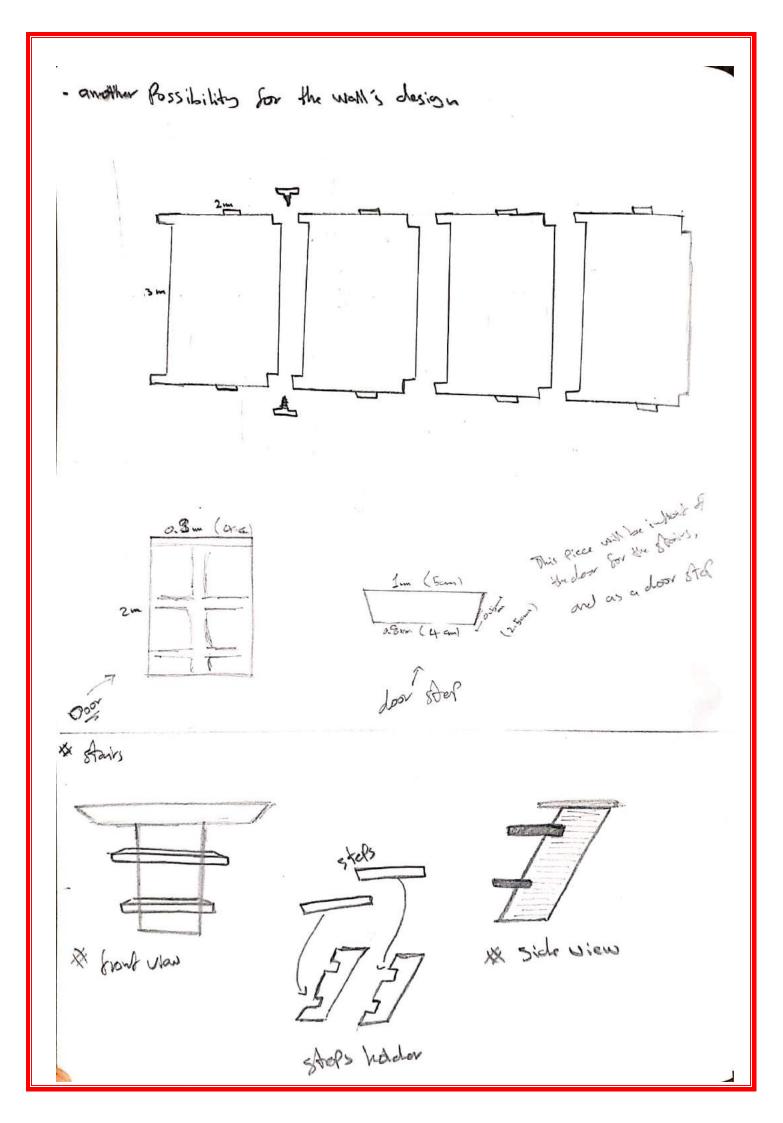
### What is the final outcome for the FMP?

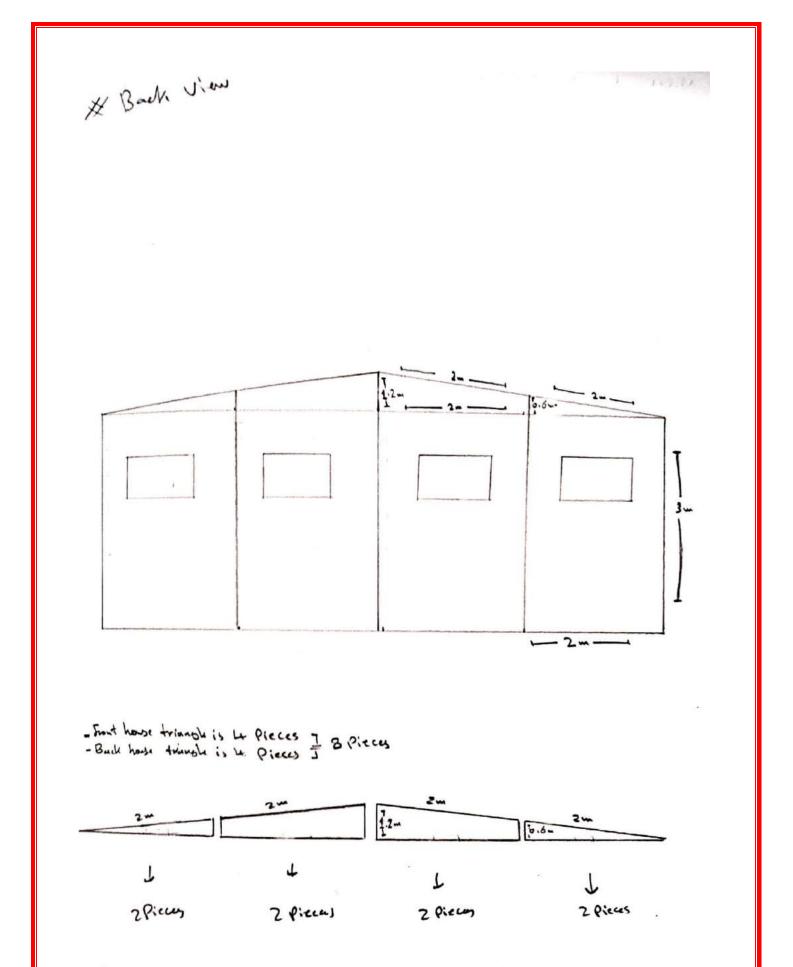
- ✓ The outcome is a model of a square shelter and it is a small scale of a real shelter I designed for the Syrian refugees who live in miserable tents.
- ✓ The design is made to suit a big family (5-8 people) and I chose the size to be
  8m for length, 8m for width, 3m for the height and 0.5m lifted off the ground.
- ✓ I used the scale (1:20) to get the model, and that gave me 40cm for the length, 40cm for the width, 15cm for the height and 2.5cm lifted off the ground.
- I suggested using recycled plastic and recycled wood plastic to make the shelter from.
- I designed the design in a particular way that can be disassembled and reinstalled to make it easy to transport, to build, and be modular, light, recyclable, cheap and durable.
- The model is made from MDF boards in different accurate sizes of pieces designed on illustrator and been cut by a laser cutter.
- ✓ The model is an outcome of big research about 1-war & refugees, 2-camps condition, 3-less is more, 4-biomimetic, 5-materials.

#### Sketchbook

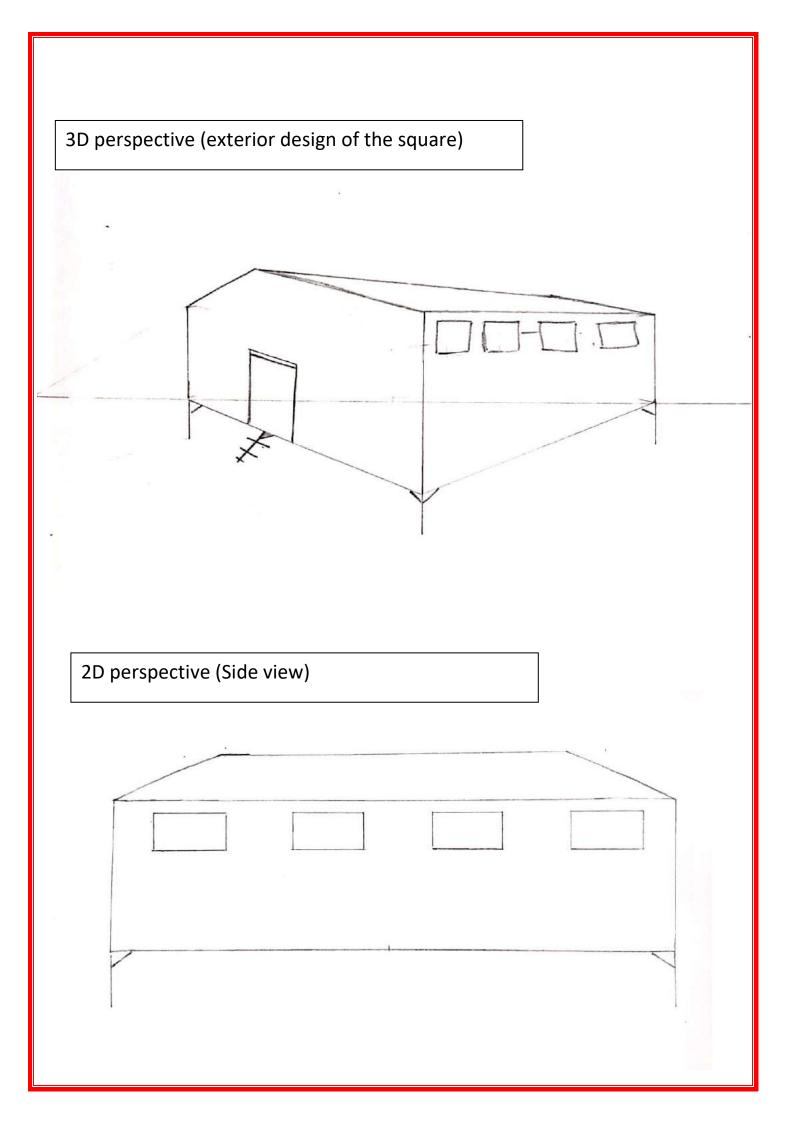


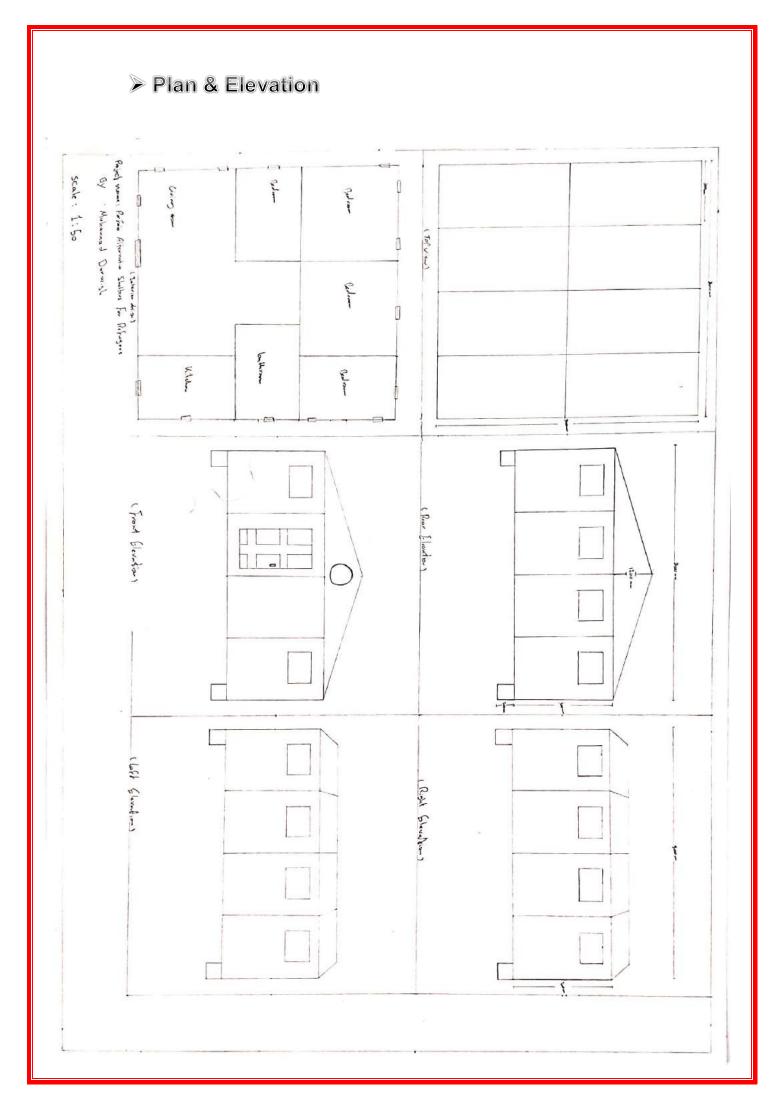


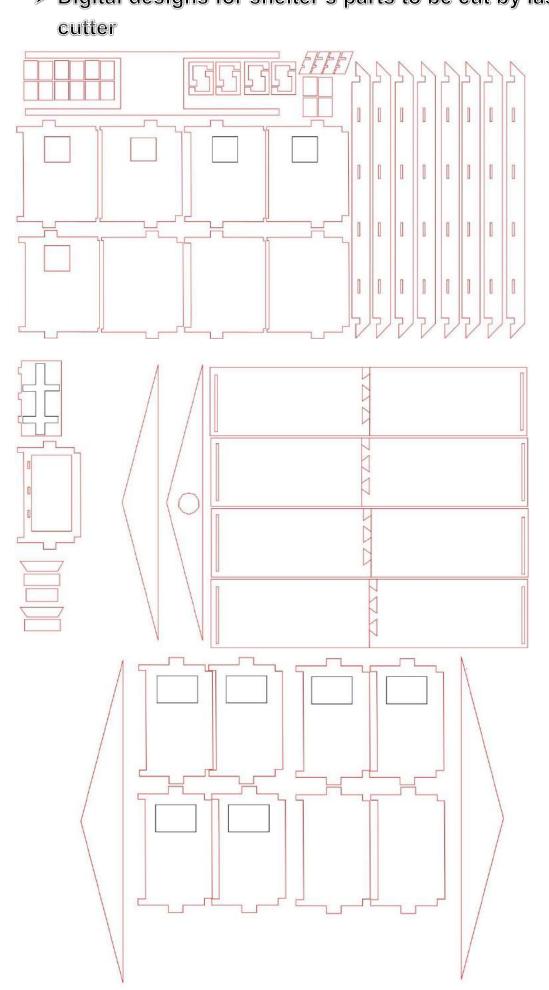




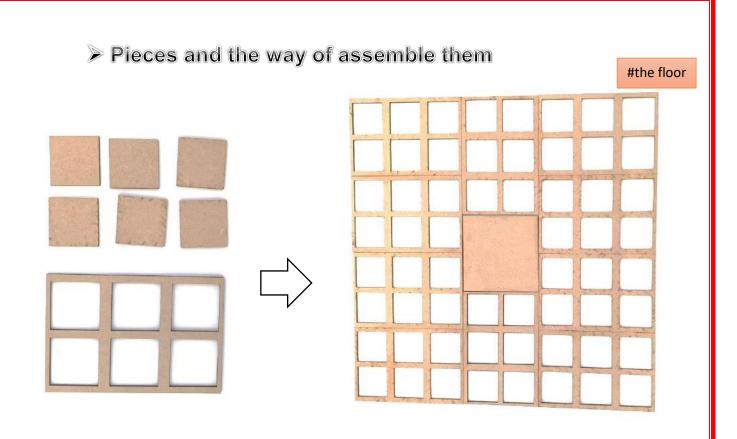
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Digital designs for shelter's parts to be cut by laser



#the floor, wall and roof holders

