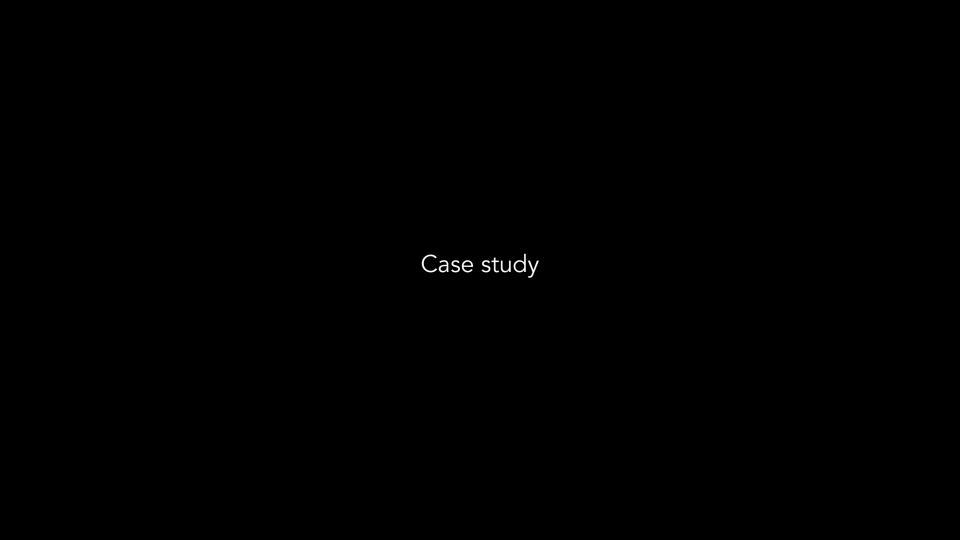
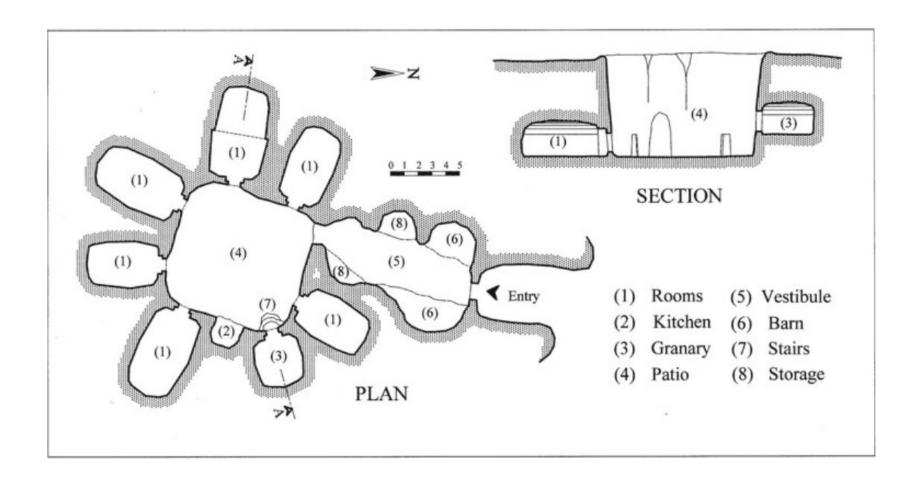


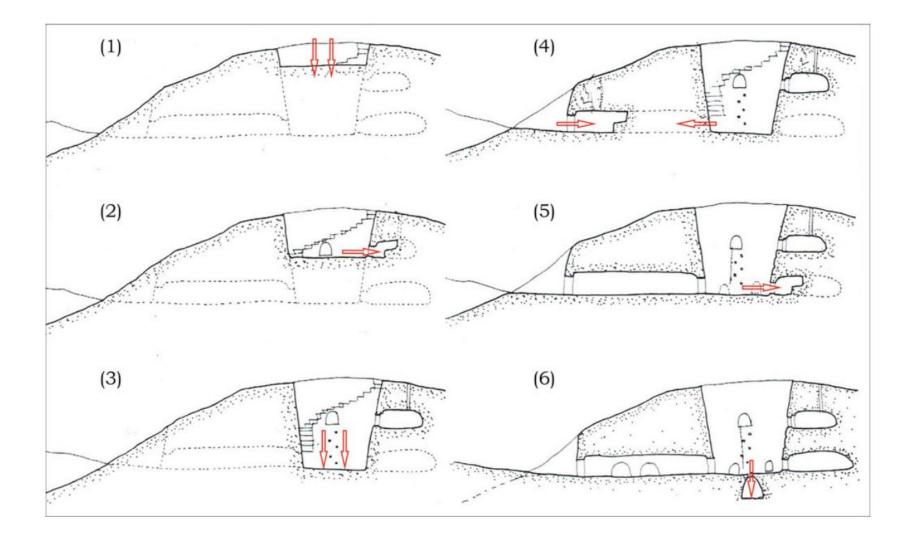
Structure:

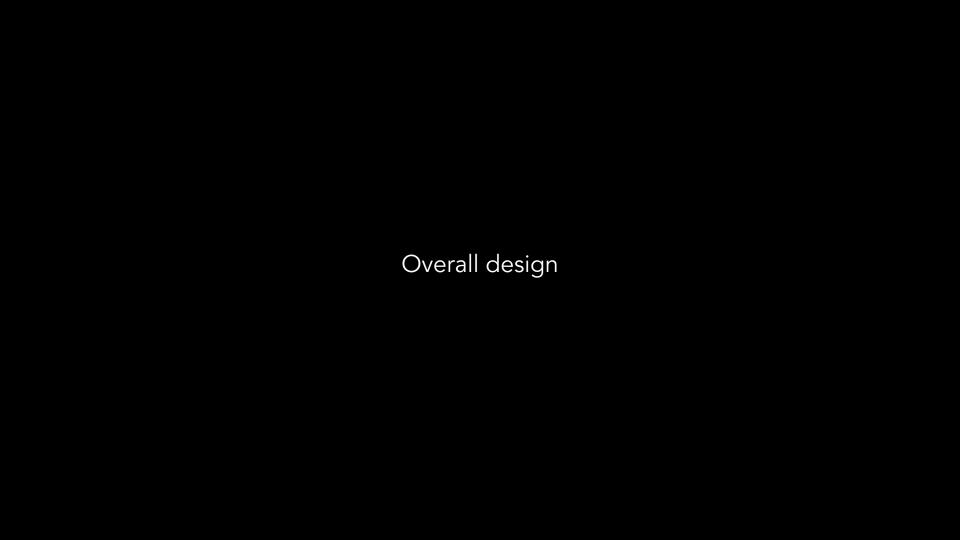
- 1. Overall & Fragment design
 - a. Case study
 - i. Overview
 - ii. Plan
 - iii. Process
 - b. Overall design
 - i. Programme
 - ii. Courtyard
 - iii. Process
 - 1. Case Study
 - c. Housing design
 - i. Case study
 - ii. Programme
 - iii. Process
 - iv. Section
 - v. Plan
 - vi. furniture design
 - d. Canopy
 - e. Fragment design
- 2. Production & Assembly
 - a. process



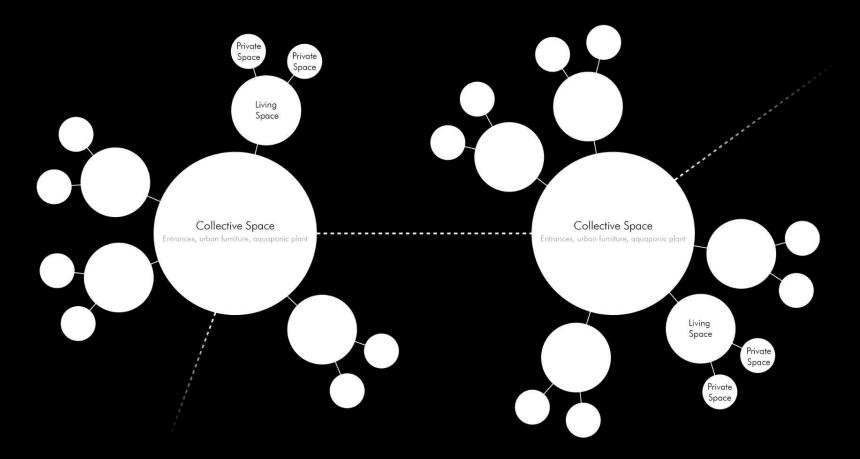




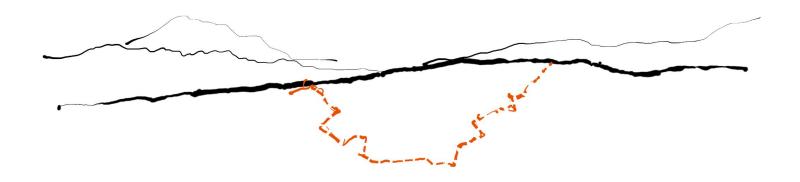


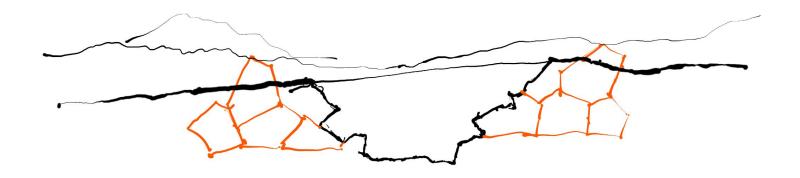


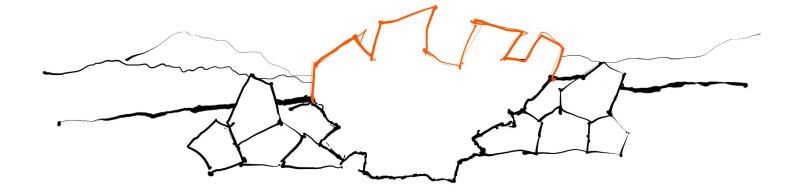
Courtyard organization concept



components: courtyard + housings + canopy

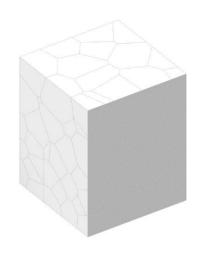








Overall voronoi design







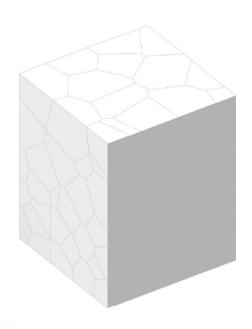


Bounding box

Extraction of courtyard volume

Formation of courtyard and canopy

Integration of courtyard and houses











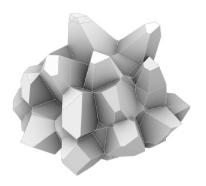








Voronoi selection



















Creating courtyard











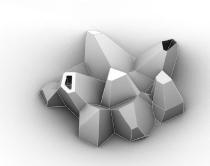








Creating canopy











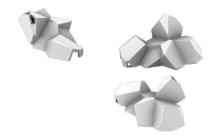








Creating housing units





















Attaching the housing units



















Overall design







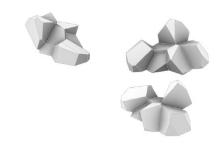


















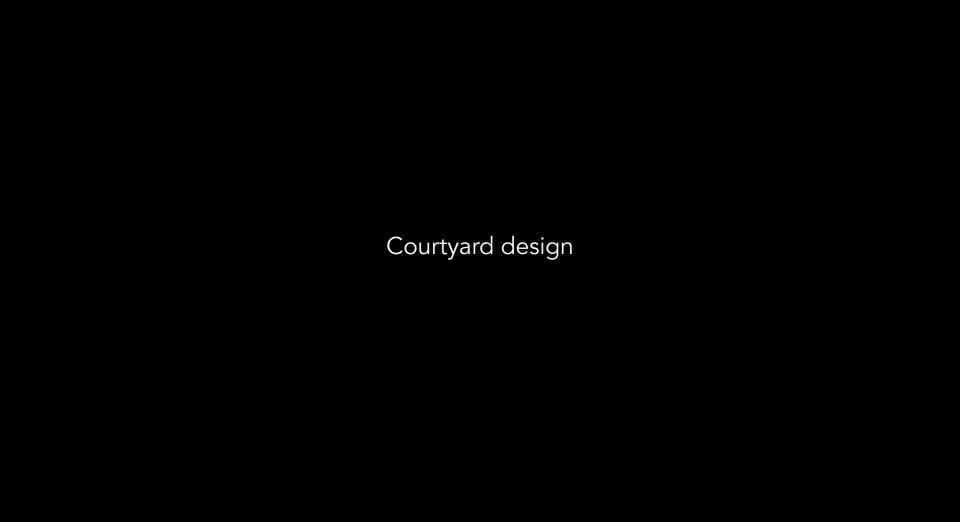




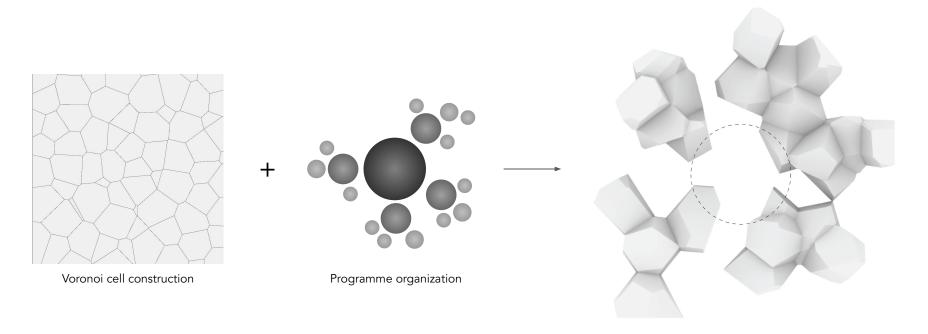






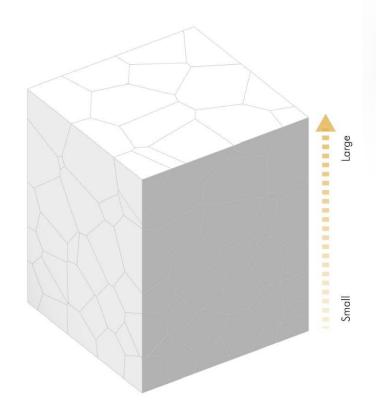


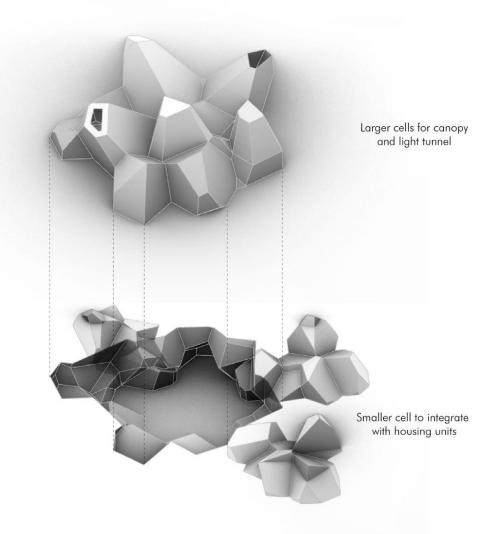
Voronoi housings to community

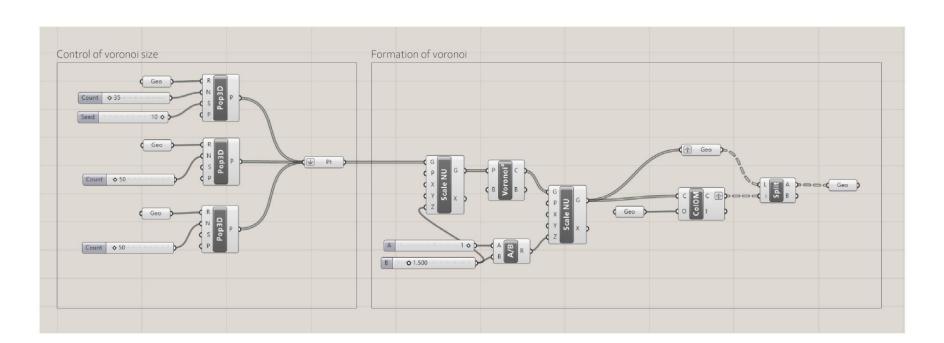


Voronoi cell organization

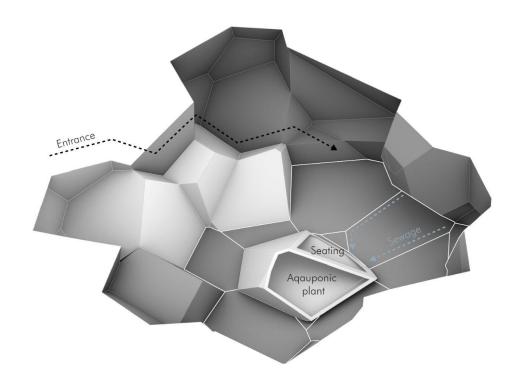
Courtyard voronoi design







Courtyard urban furniture design





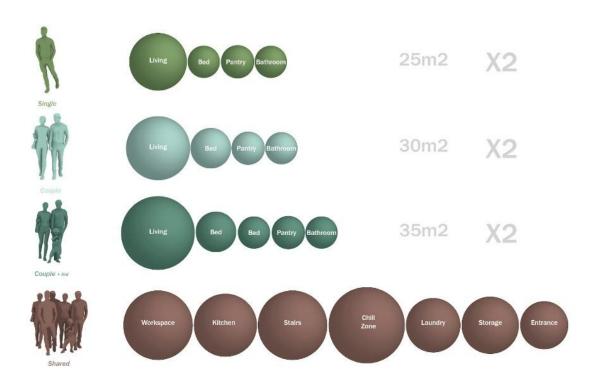
Cell stair design

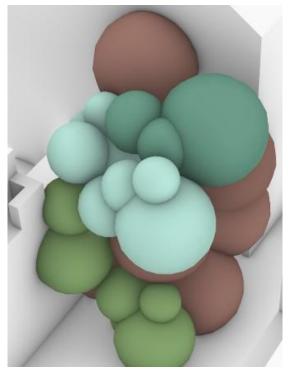


Aquaponic plant

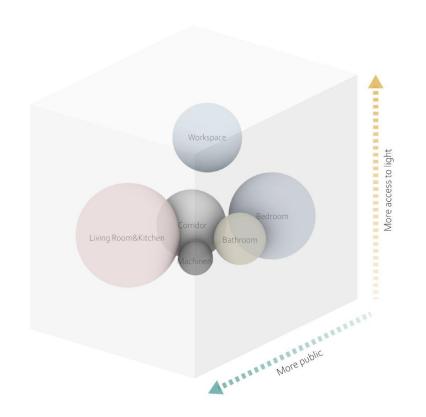


Case study - customization of spaces



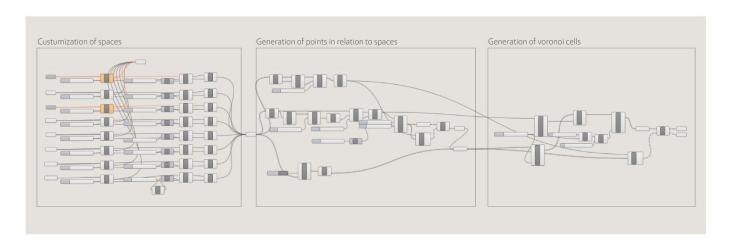


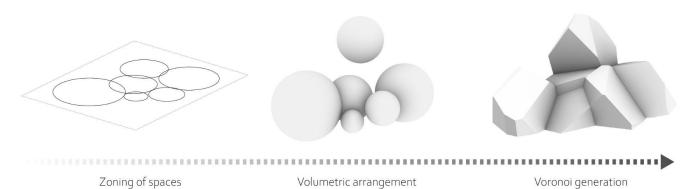
Design strategy - customization of volume



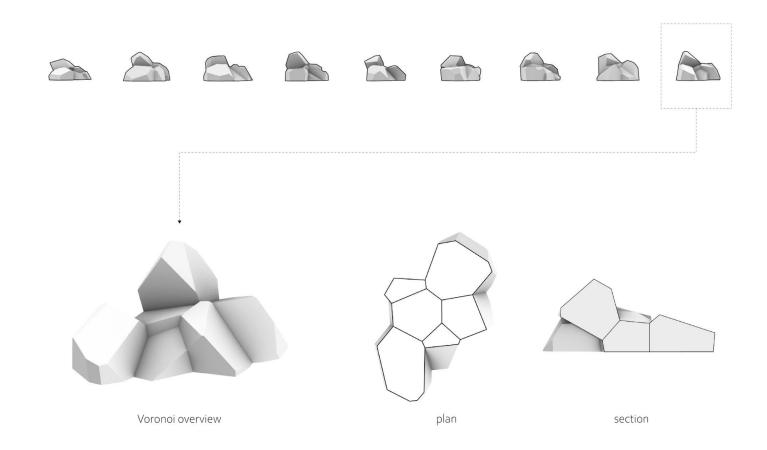


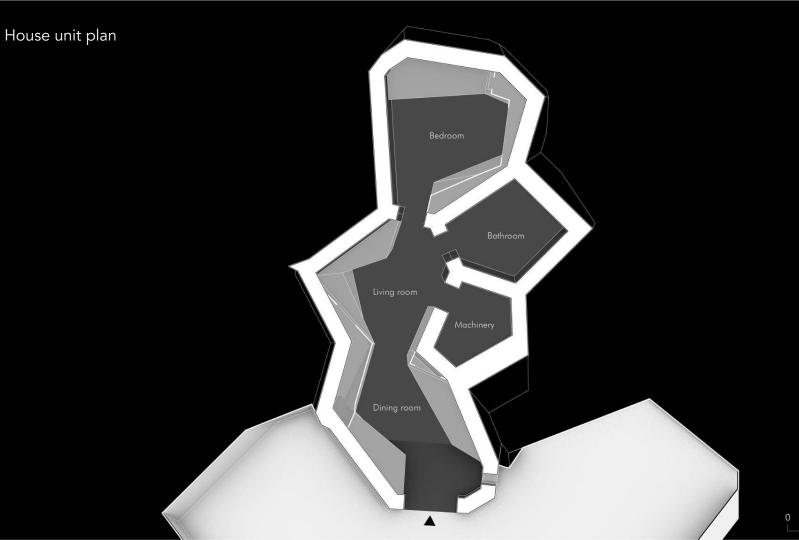
Translation of volume to voronoi



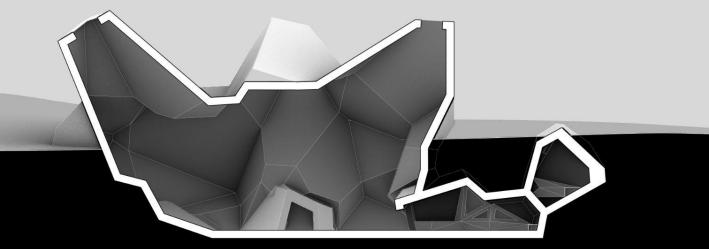


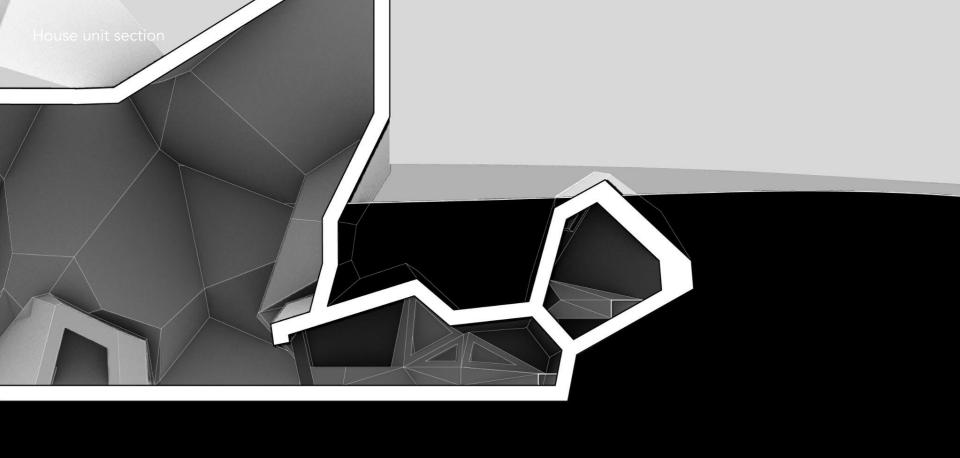
Selection of better options



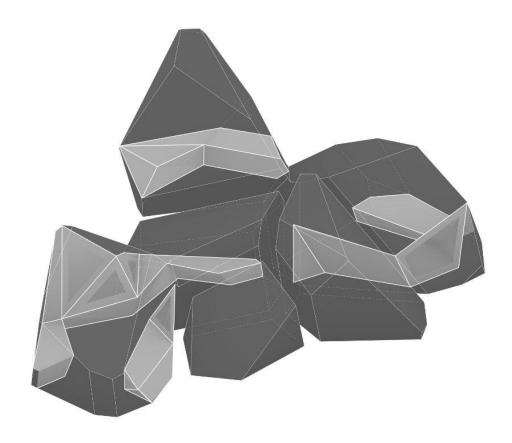


1 2 5m



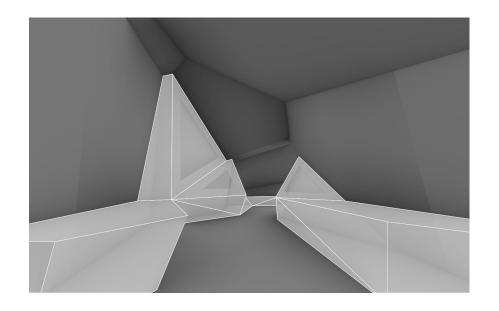


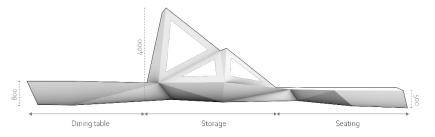
Furniture design



- -extended from the wall
- -continuous triangulated plane -variations in form for different usage

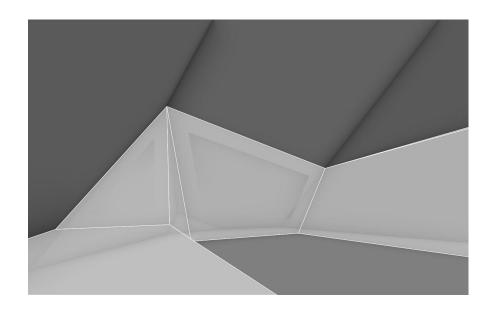
Furniture design - dining room

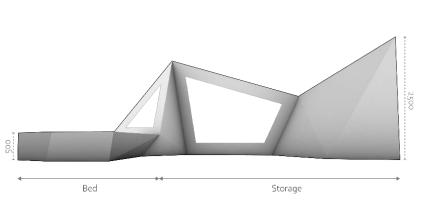




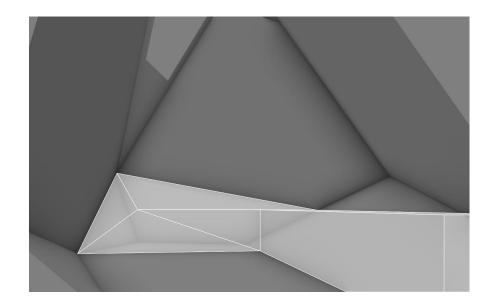


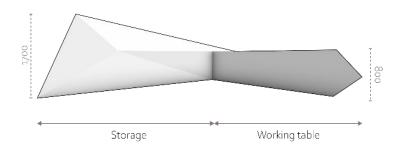
Furniture design - bedroom





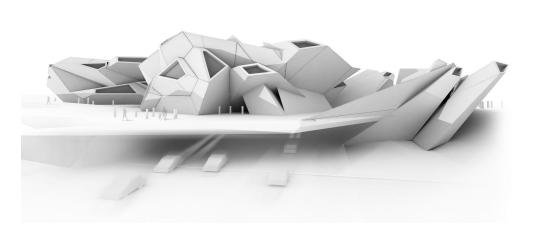
Furniture design - studio

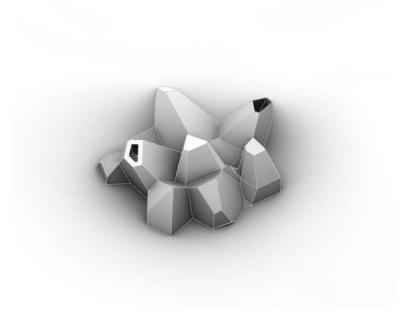






Inspiration



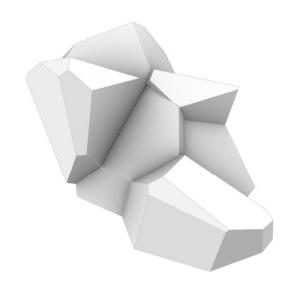


Student example

Voronoi dome generation





















Selection of one of cell



























































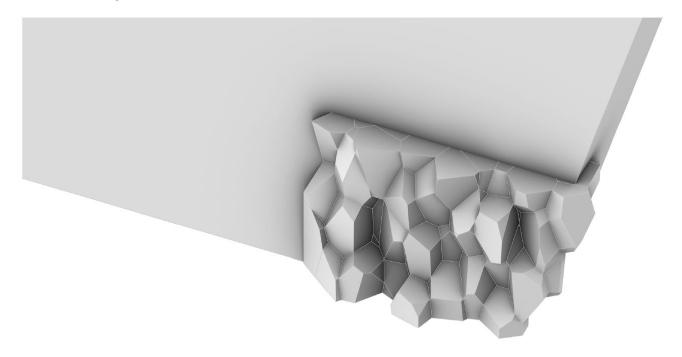








Voronoi in wall fragment







Selection of component















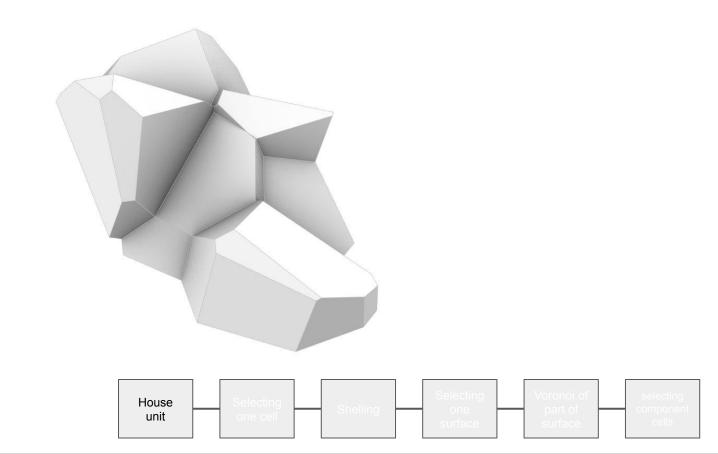


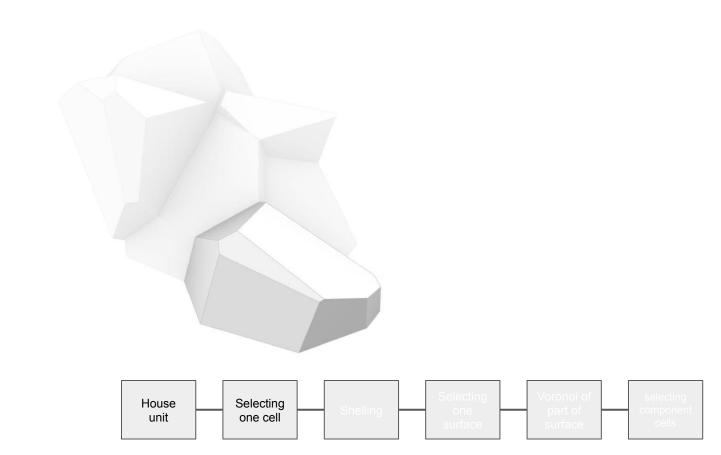


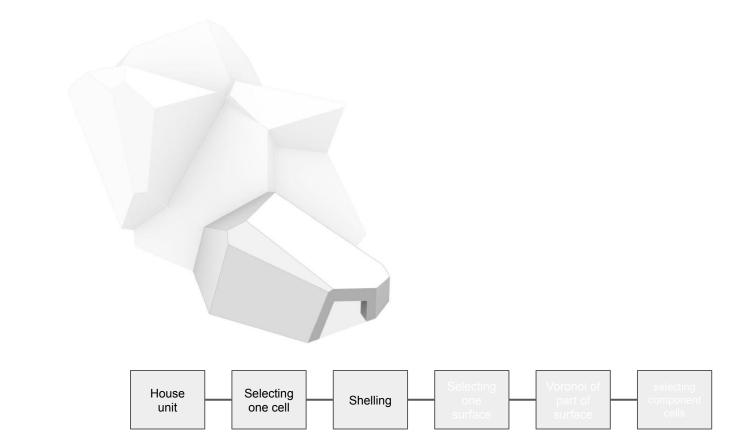


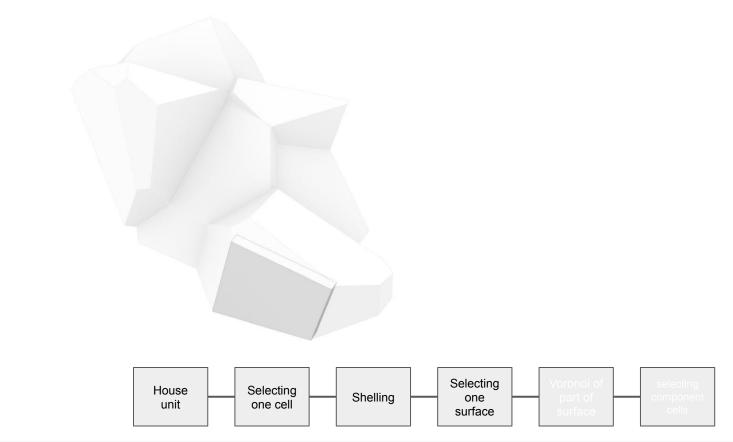






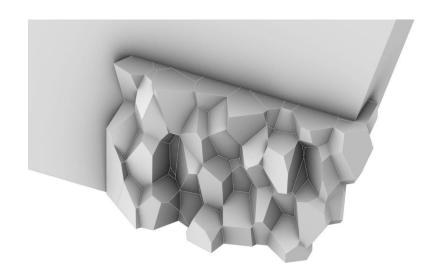


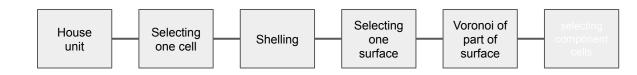




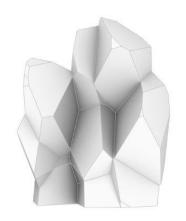
Voronoi in wall fragment







Selection of component



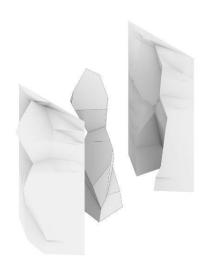


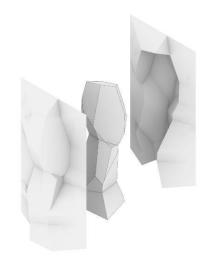


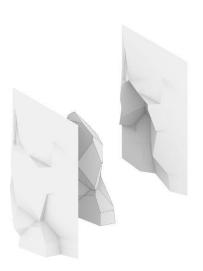




Preparing the components for initial material removal tool path creation







Face selection, face texturization and hole selection

