

# Portfolio

Madjid

Yeganehi | Architect |

| BIM & 3D specialist |



# M Y AJID YEGANEHI

Architect  
CAD/CAE expert  
Researcher



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## About me:

**Skilled architect:** University lecturer, Sustainable designer, Design architect and design manager (12 years).  
Researcher: Digital Society School- Amsterdam University of Applied Science  
Currently: Researcher and advisor at Regional Tehran ICH (Intangible Cultural Heritage) Center under the auspices of UNESCO

**Moderator:** Moderator team member at: [www.sketcheducation.com](http://www.sketcheducation.com) (3D SketchUp Community for Design and Engineering Professionals, 14 years)

**Published books:**  
Low energy architecture, ISBN: 964-06-2513-2, Co-writer.  
Skybound Structures

## Computer Skills:

**CAD | CAE and Parametric modeling:** Revit Architecture, AutoCAD (2D & 3D), Blender3D, Rhino3D, Grasshopper, Karamba 3D.

**Office 360:** Word, PowerPoint, excel, Publisher.

**Rendering:** V-Ray, Lumion, Virtual model (VR).  
Thea render and Inspire studio beta tester.

**Image editor:** Photo Shop, Adobe suit

Metaverse integration modeling

**Coding:**  
Python and Processing languages

## Design Skills:

Communication and team work.

Problem solving, creative and critical thinking.

Concept and design development.

Sustainable design.

Freehand drawing and sketching.

Detail design and development.

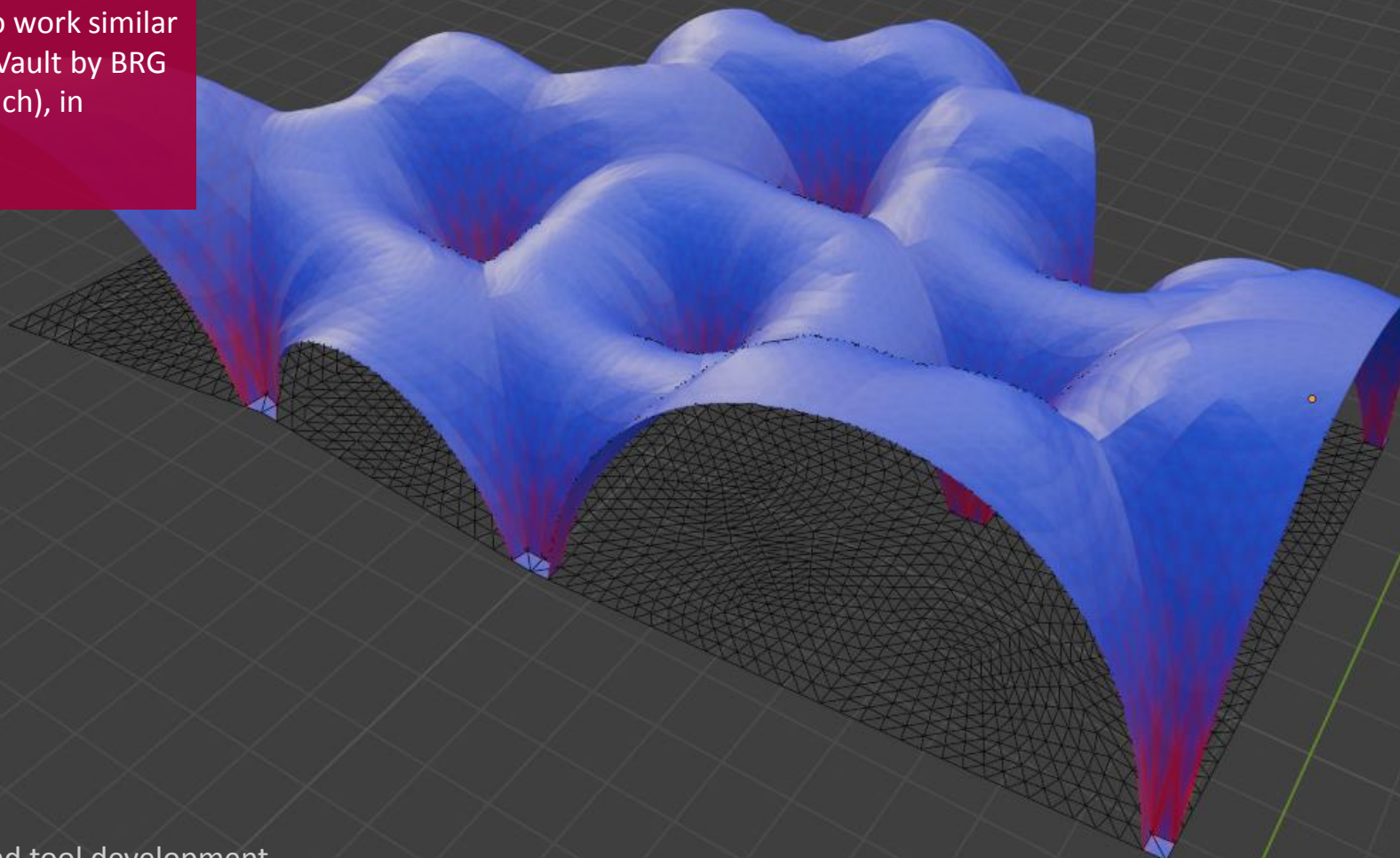
Physical model and 3D printing.

## Personal Skills:

**Hobbyist** vocalist, photographer.  
Urban sketcher

**Coding:**  
Hobbyist code writer using  
Processing language

Tool development:  
BlebderVault is an  
ongoing project.  
A Blender add-on  
aiming to work similar  
to RhinoVault by BRG  
(ETH Zurich), in  
Python



Options ▾

Item Tool View Animation Vaults

▾ Folding Vaults II ⋮

Base Me... [ ] Vault\_001 ✕

Anchor ... [ ] vg2 ✕

Stiffnes... [ ]

Topology

☐ Use Delaunay

Mode: Quad Fan ▾

Subdivision 1

Solver Settings

Global Stiffness 0.40

Load 1.00

☒ Flip Z

↻ Interactive

▶ Compute Vault

Coding (Python) and tool development



Tool development:  
BlebderVault is used  
to optimize the  
design.  
This is inspired by the  
Lake Flato Confluence  
Park design and  
construction



Modeled / optimized and rendered inside Blender 3D



Sustainable design:  
I all my designs,  
benefiting from  
natural lighting, and  
ventilation, choosing  
passive/hybric  
ventilation is the core  
concept



Gostaresh Office

BIM in sustainable design. Natural light optimization, Double facade

Usage: Office/Educational  
Client: Novin Pajouhesh  
Design: Yeganegi-Rezaifar  
Develop: Pejvak Tarh firm  
Location: Tehran  
Year: 2014-16





Gostaresh Office

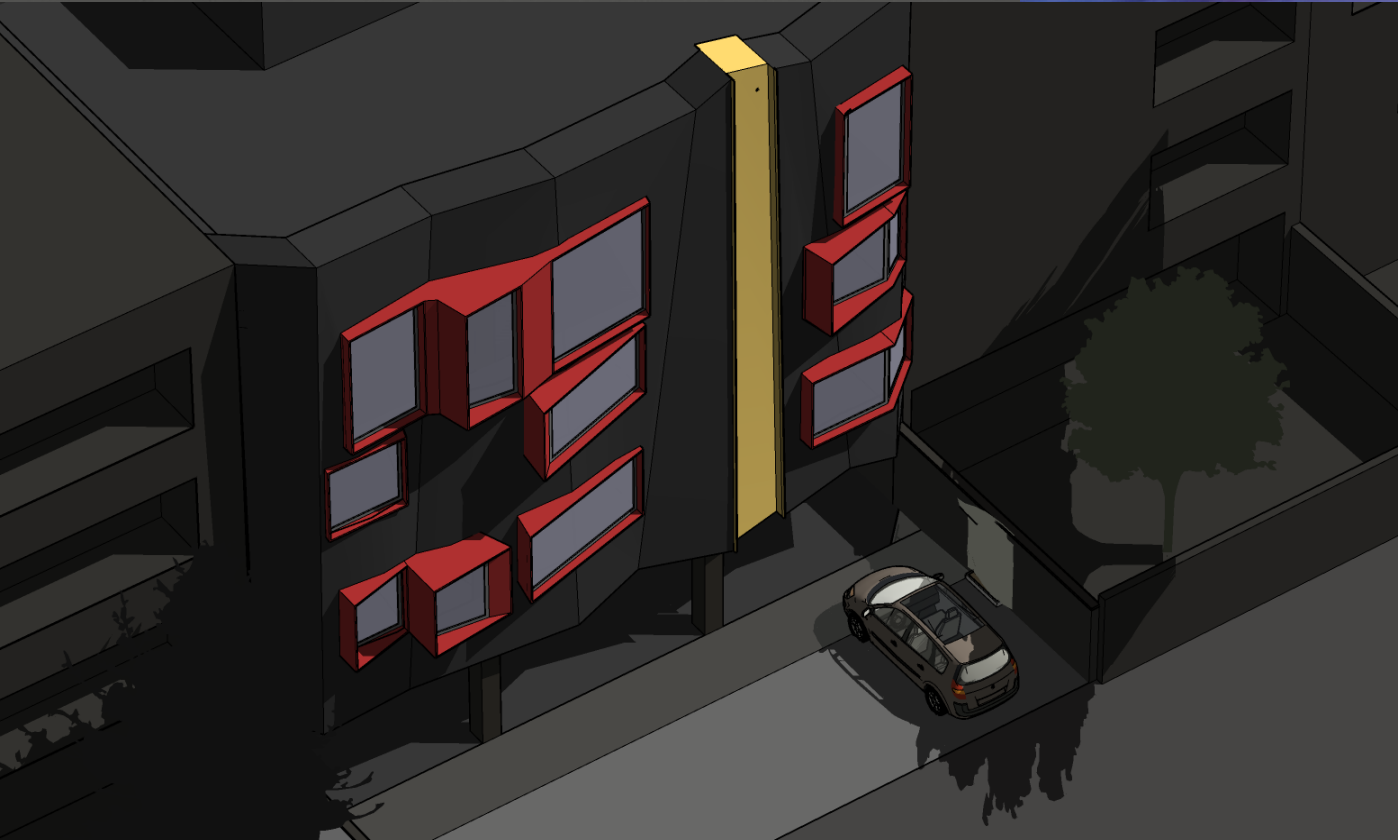
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Parametric façade;  
Welding Technology  
Institute- Tertiary  
vocational services-  
Isfahan





### Welding Technology Institute- Isfahan

Parametric Façade design: Inspired by volcanic activities. Class and workshop spaces are separated by ventilation area covered by a perforated golden color metal sheet. Windows oriented to gain the best daylight



Sustainable design  
(under construction)

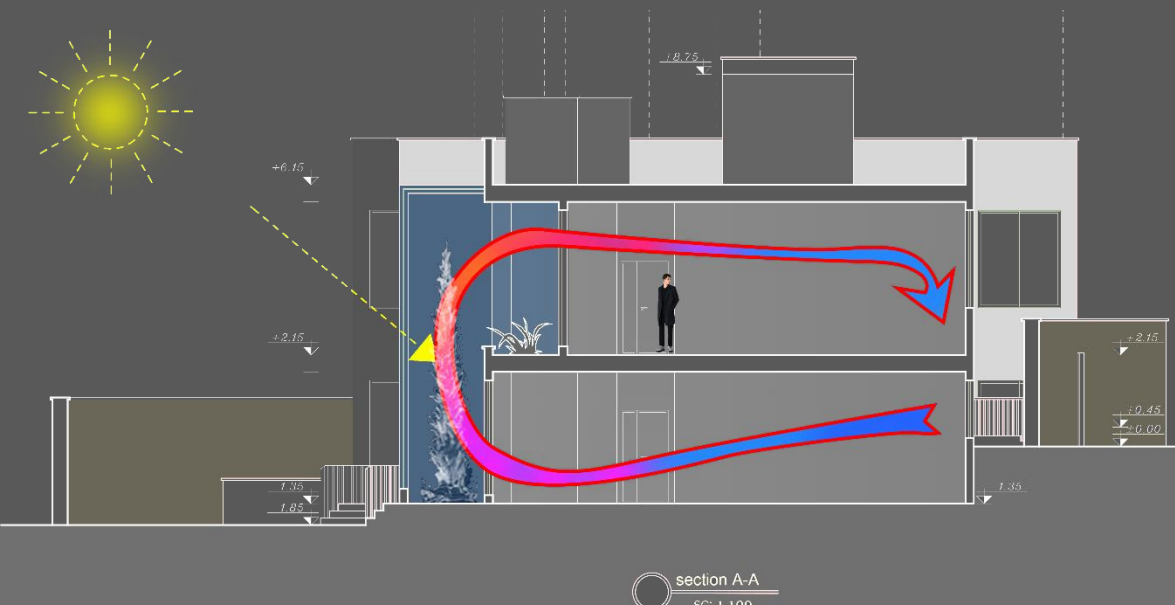


Shahrak Energy-Efficient building- Isfahan





**Shahrak Energy-Efficient building- Isfahan:**  
An abandoned structure redesigned and built as an office







ساختمان اداری شرکت مهندسی ارتباطی پیام پرداز

کارفرما: شرکت مهندس ارتباطی پیام پرداز

طراح معماری: امیرمسعود رضایی فر - مهدی یگانه

همکاران طراحی: ر. لطفی، م. پیرنجم الدین، ز. آذر، م. معمار ارمنسل

موقعیت: اصفهان - شهرک علمی و تحقیقاتی اصفهان

زیربنا: ۱۰۵۰

سال طراحی: ۱۳۹۲

#### Kavir Khodro Office

Mixed use: Office/workshop

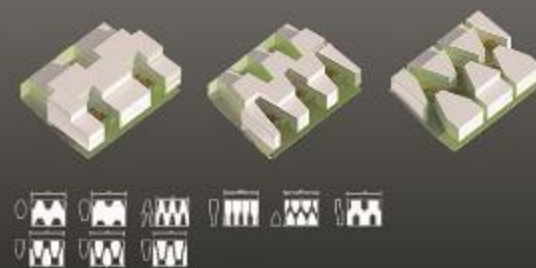
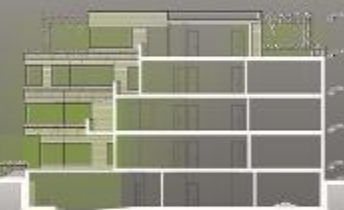
Client: [Kavir Khodro](#)

Design: Yeganegi-Rezaifar

Develop: Pirnajmedin, Kabiri

Location: Isfahan

Year: 2015



فضای اداری

فضای خدماتی

فضای ارتباطی

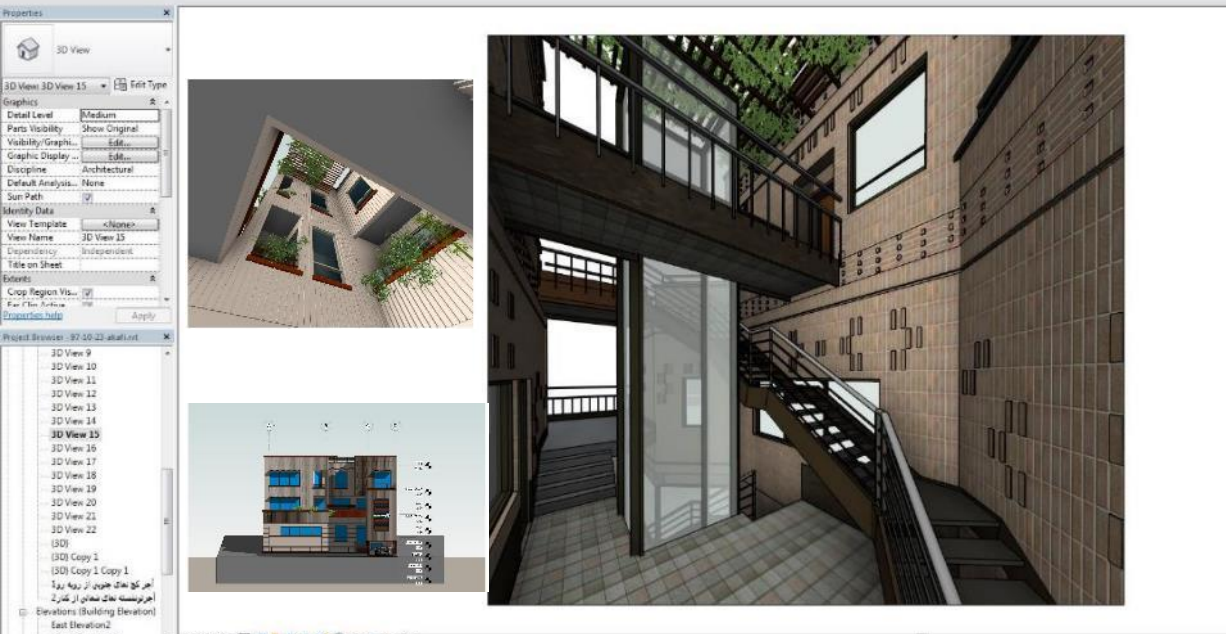
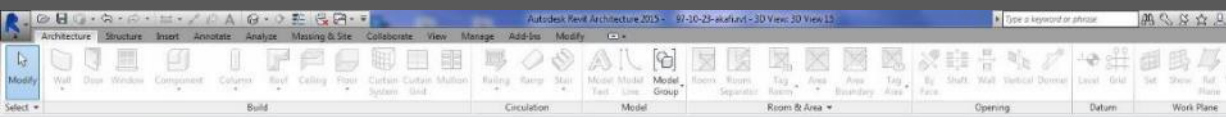
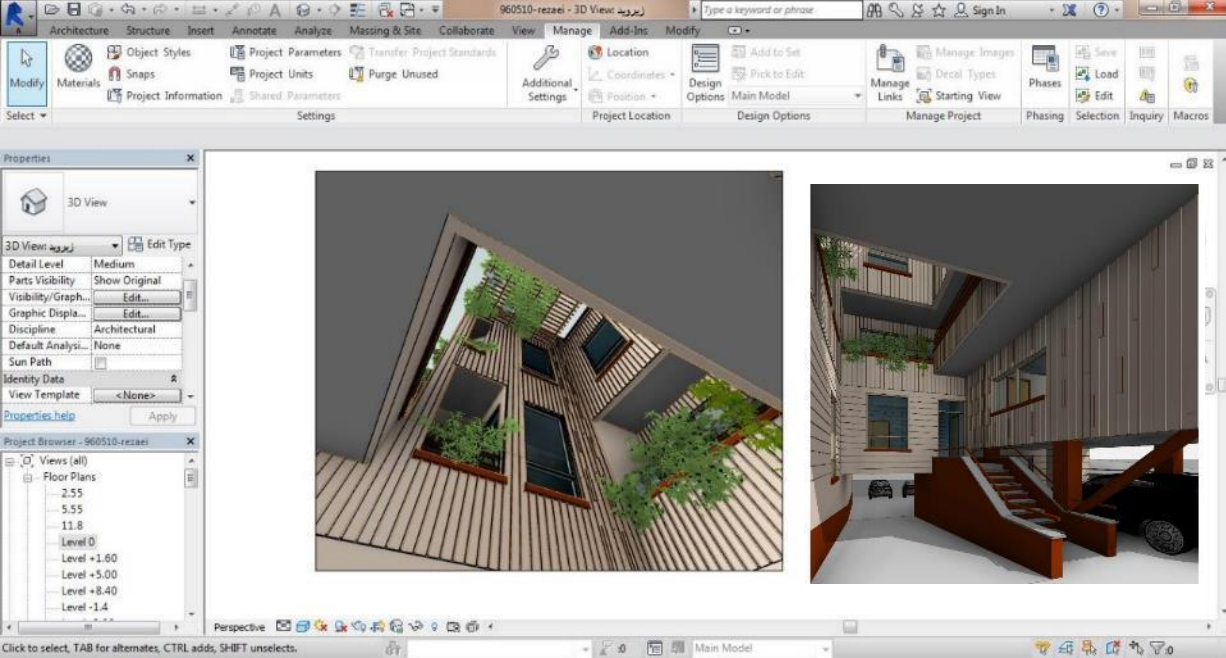
پلان طبقه دوم











BIM in sustainable design

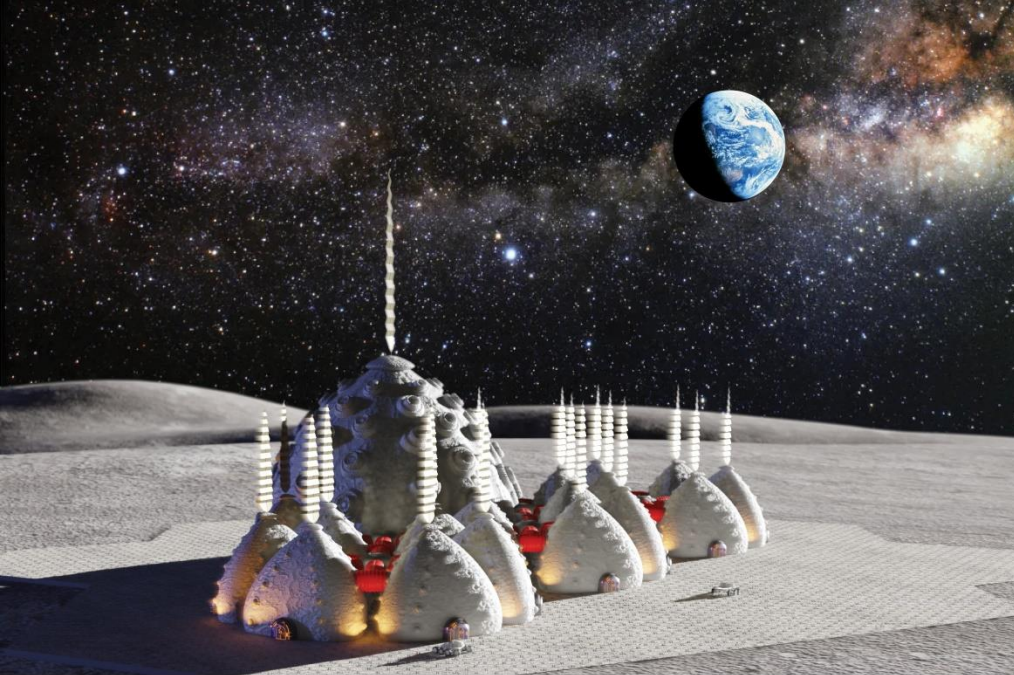


Reviving arches  
(Compressive-only  
structures) for  
contemporary and  
future contexts.

*Below: Honorable  
mention in Lunar  
habitat ASAC 2025  
challenge*







URCHIN . AUSTRALIAN VILLAGE .

MOON . 2045

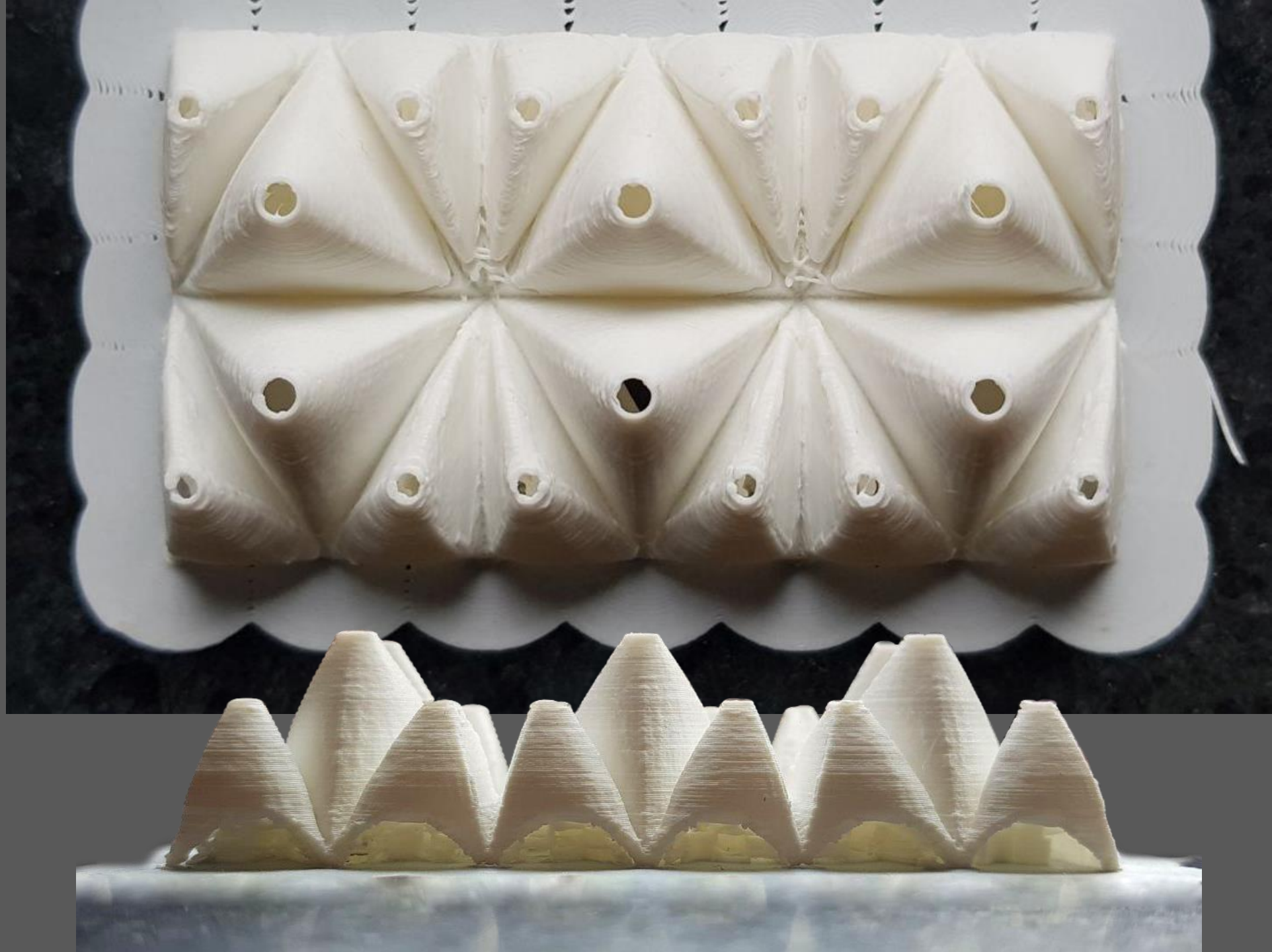


Lunar Sustainable Village:  
Australian Space Architecture Challenge 2025 | rewarded as Honorable Mention

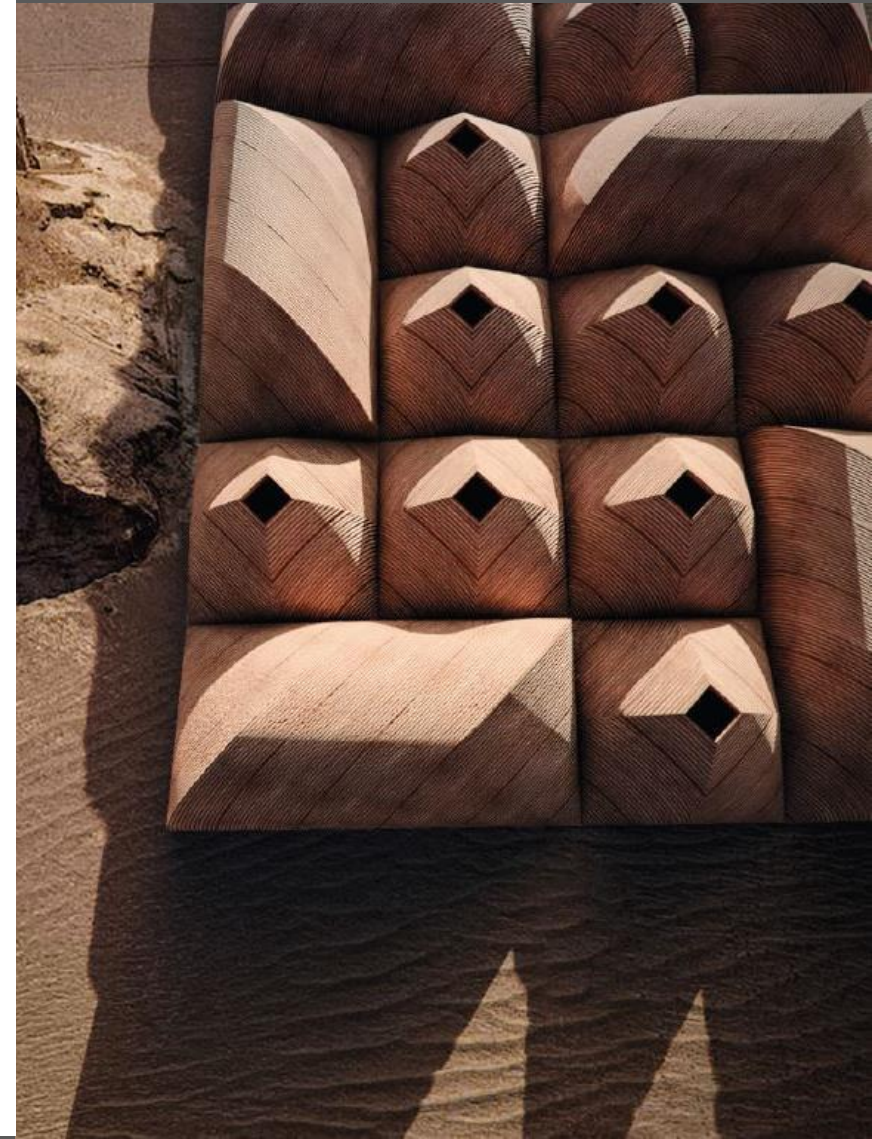
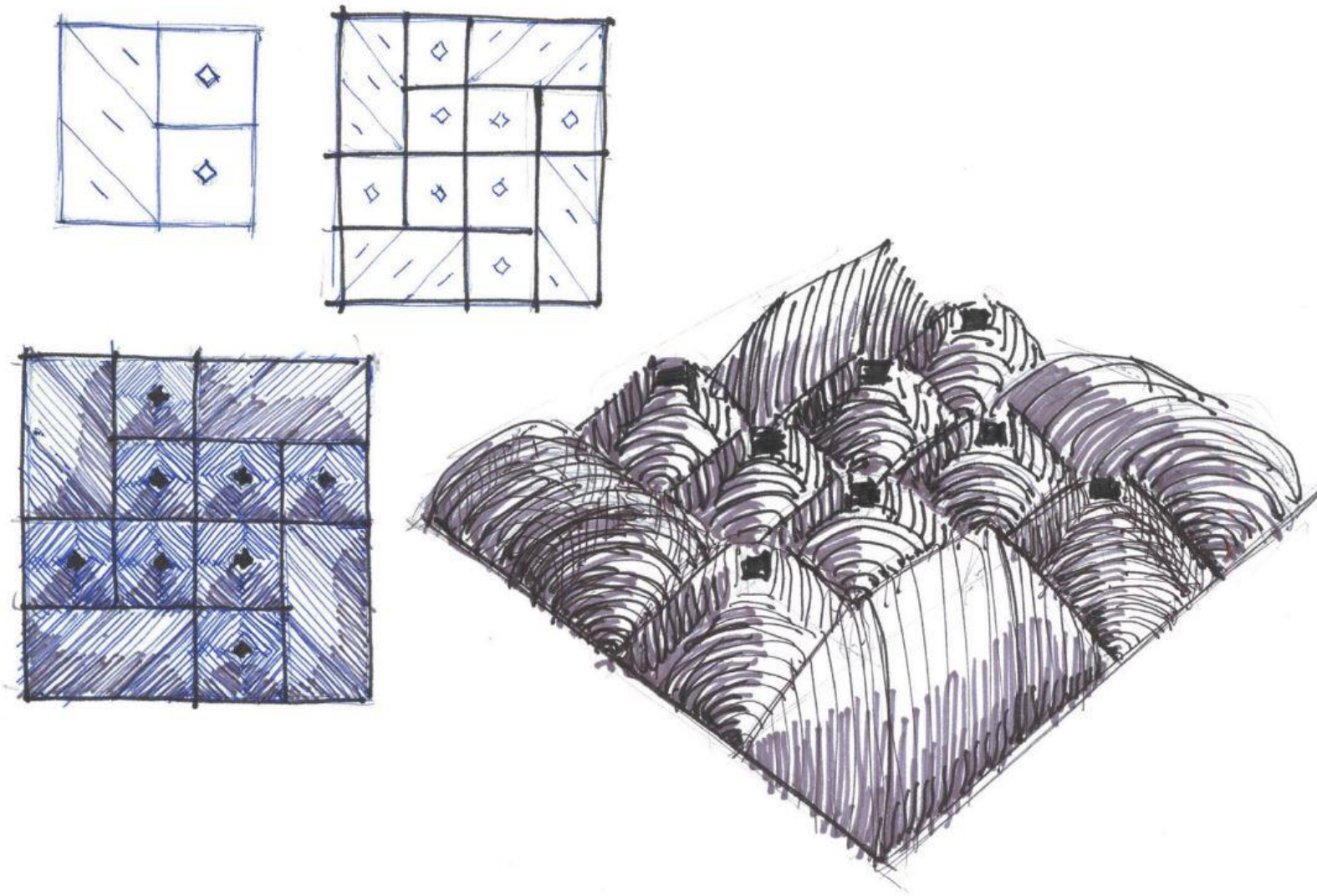


Reviving arches  
(Compressive-only  
structures) for  
contemporary and  
future contexts.

Sample modular 3D printed  
self-supporting structure  
from my [Skybound  
Structures](#) book.

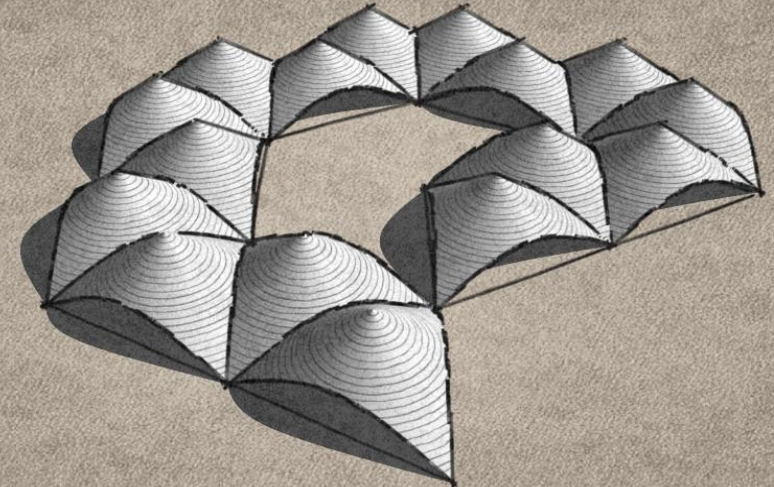
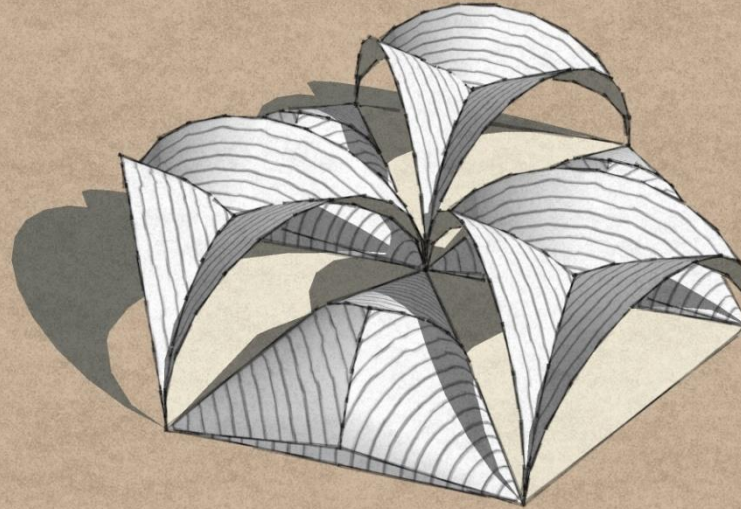
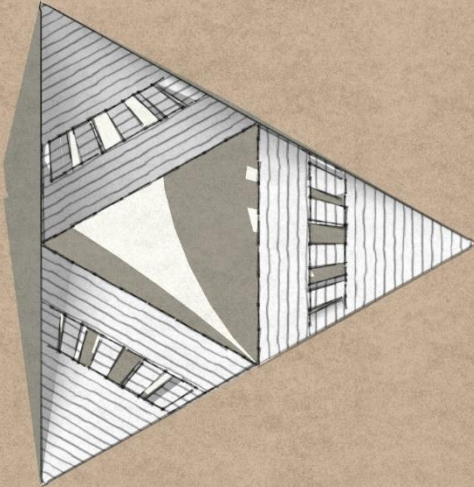
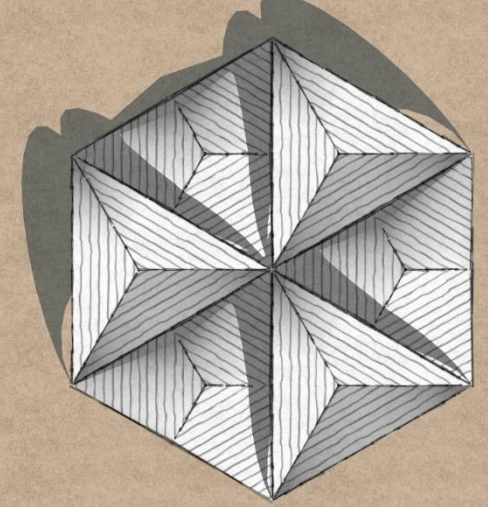
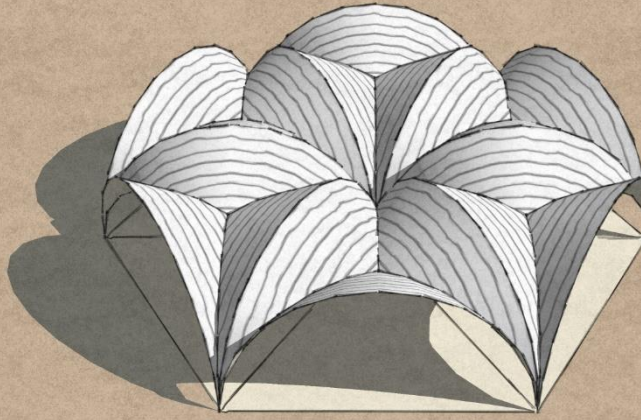
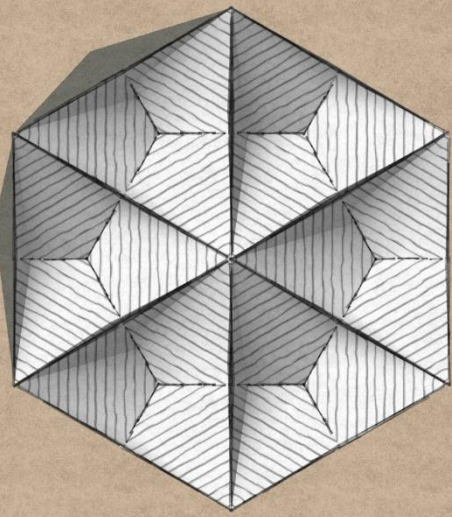






A sample sketch and 3D model from my Skybound Structures book, a hypothetical desert habitat/base inspired by arched structures. The modularity and self-supporting nature of arched structures positions them to be built in resource-limited environments.





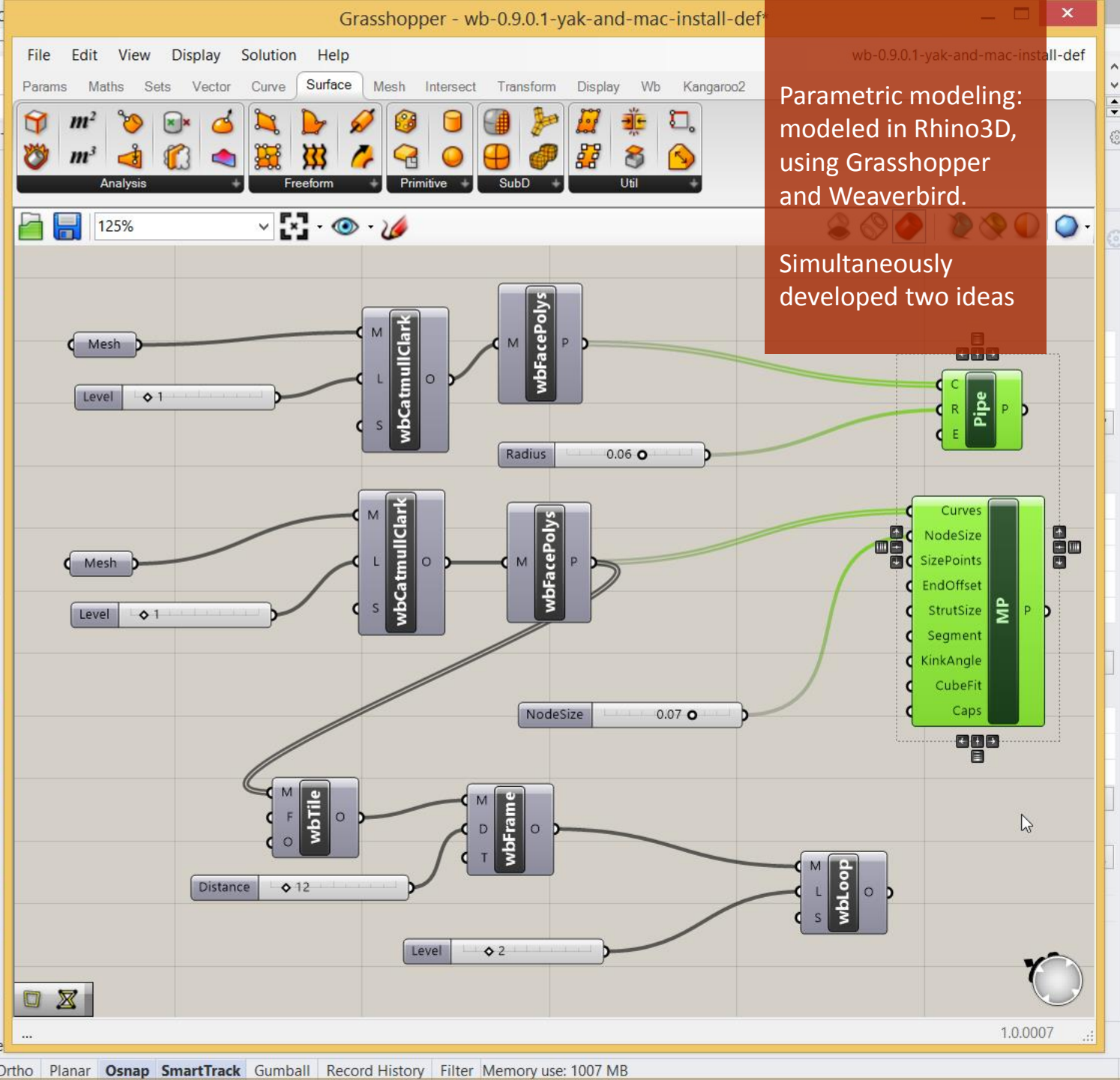
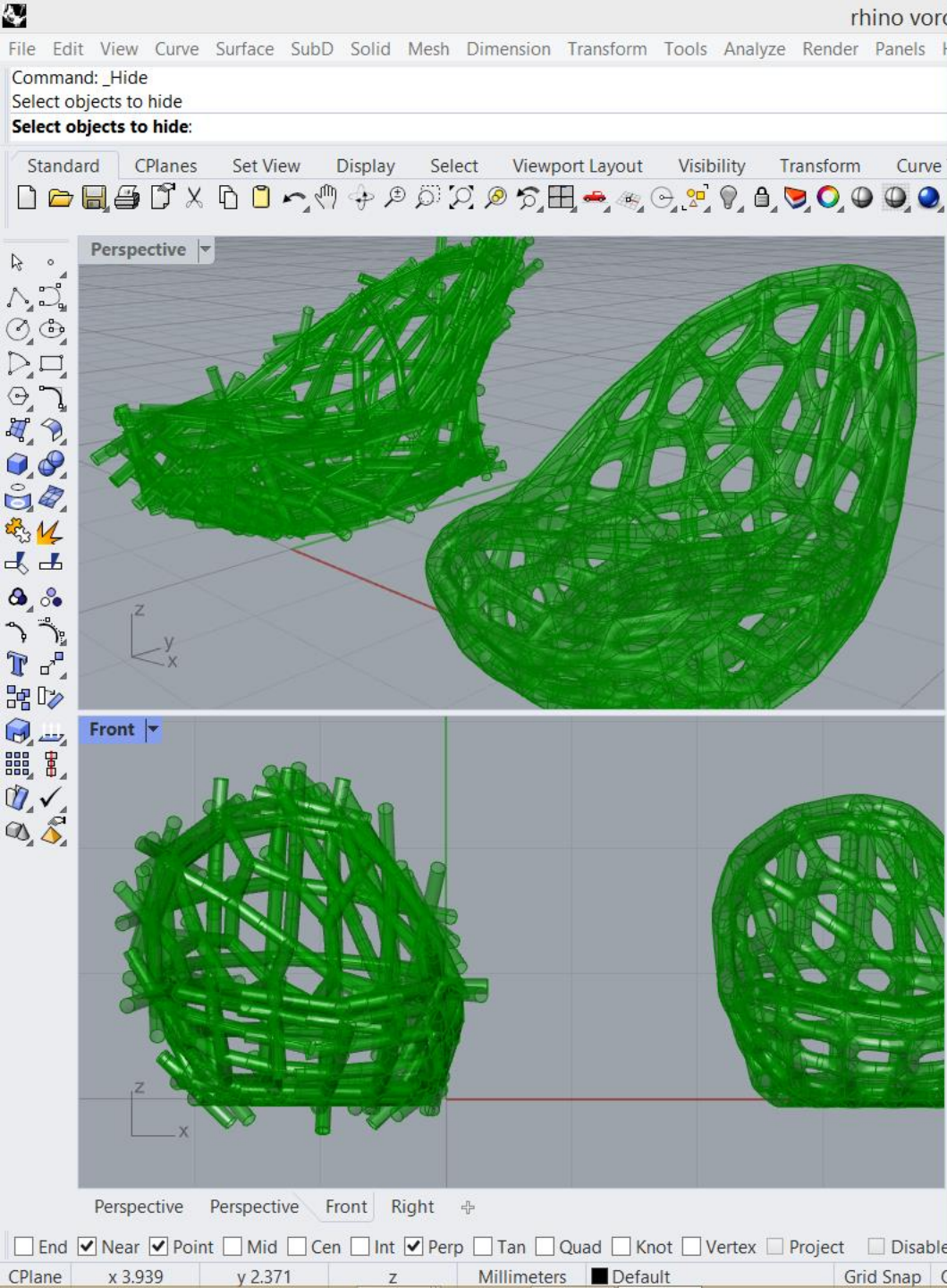
More examples of my Skybound Structures book adhering to hexagon modularity, self supporting and 3D printing sustainable construction methods



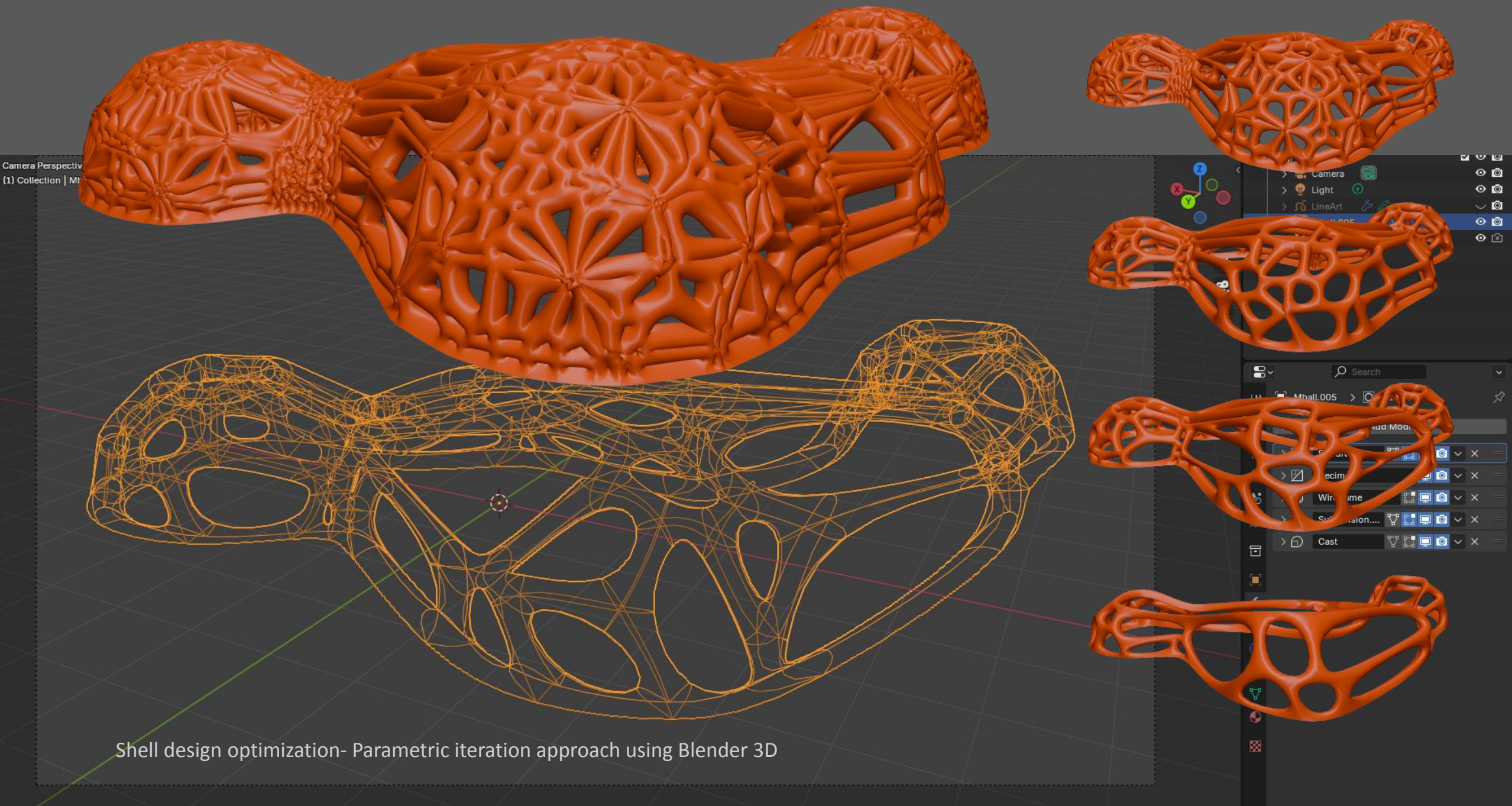
Parametric modeling:  
modeled in Rhino3D,  
using Grasshopper  
and Weaverbird.  
Rendered in  
Blender3D









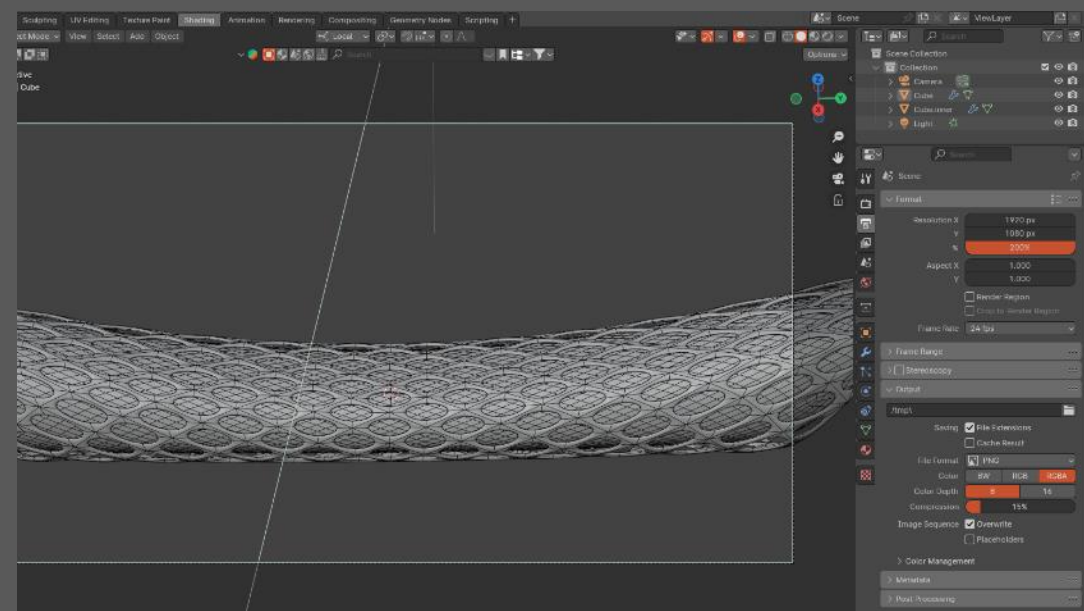


Shell design optimization- Parametric iteration approach using Blender 3D





Parametric modeling  
using Blender 3D:  
Structurally  
optimized bridge, a  
hypothetical design





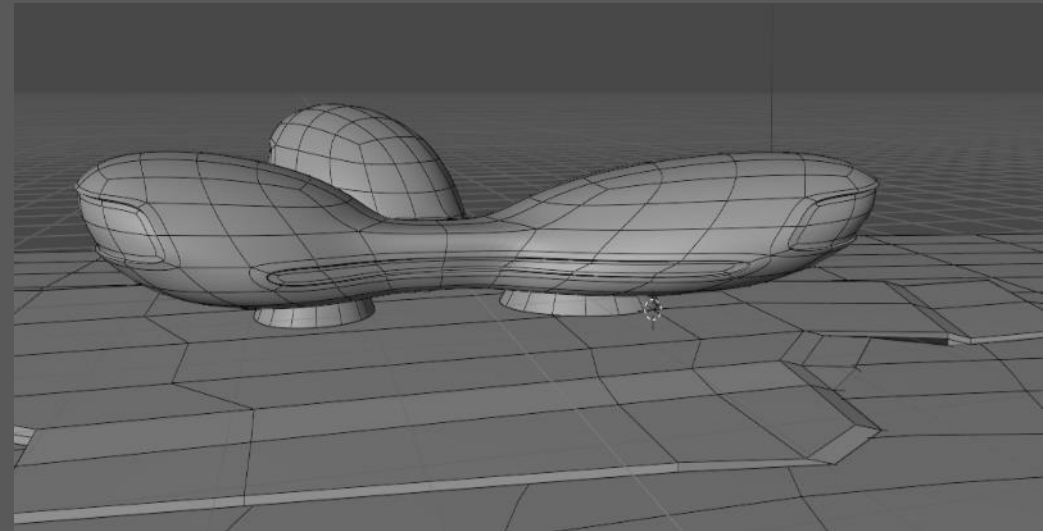
Parametric sustainable  
modeling:  
Alpine lab. a  
hypothetical design











Parametric modeling:  
Nordic sea-watching and research space. A hypothetical  
design. Towards environmental adaptation







