

ARCHITECTURE / COMPUTATIONAL DESIGN

IG portfolio

Ivan Grebennikov

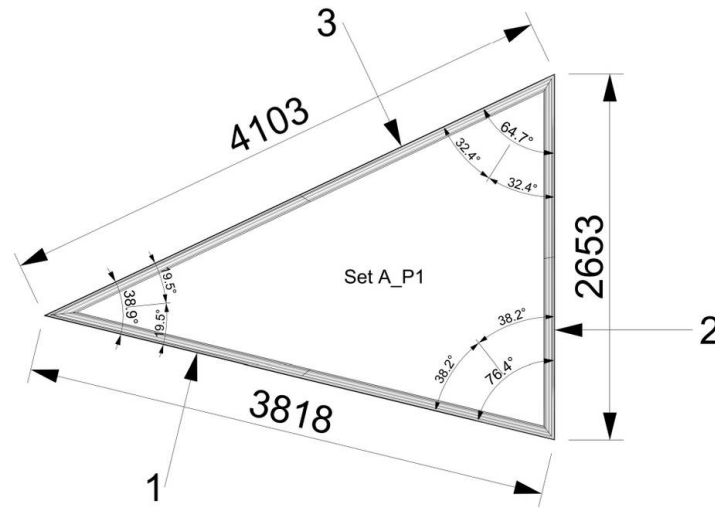
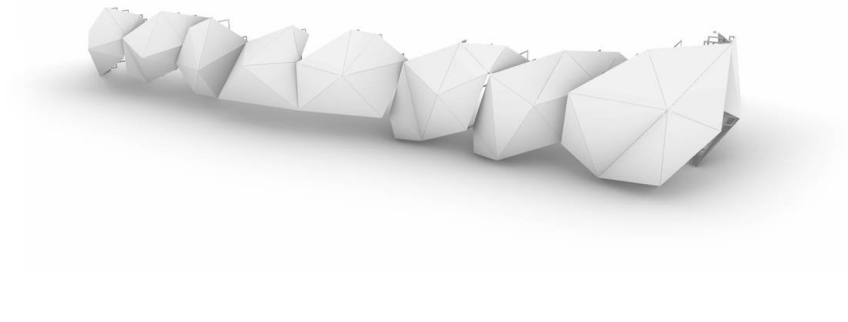
Mexico hospital panels

OVERVIEW

Textile membrane panels made fully in Rhino and Grasshopper. As an input algorithm takes triangular meshes or surfaces, as output - excels with parts lists, valid closed 3d models of each part, production drawings per each part, part nesting.

WIP project in Mexico.

Gallery

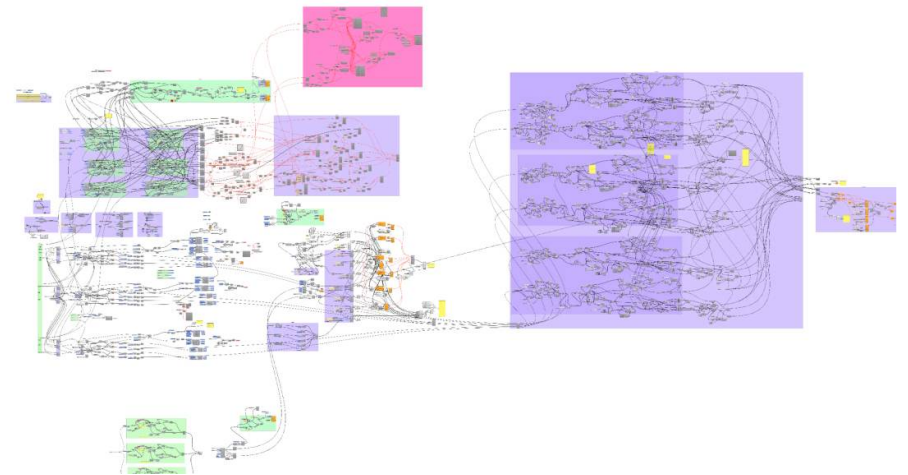
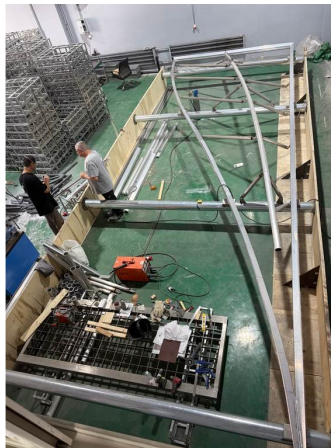
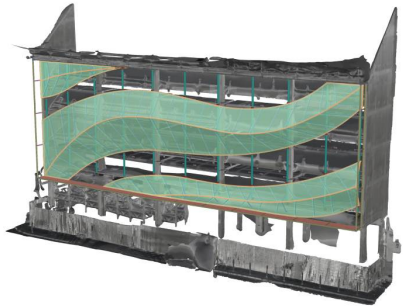


Tahiti harbour facade

OVERVIEW

Custom facade from tensioned textile fabric. Model made based on 3d scan. Everything is produced as arcs, producing complex double curved shape. On the pictures below you can see process of the mockup creation. WIP project in Tahiti.

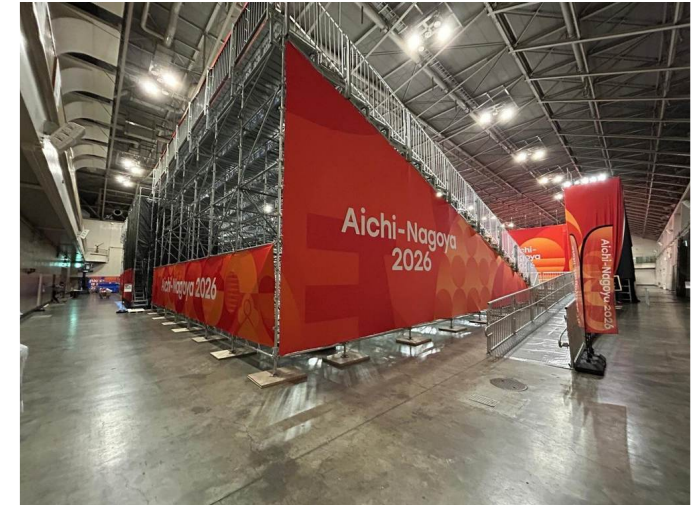
Gallery



Events

AICHI NAGOYA 2026

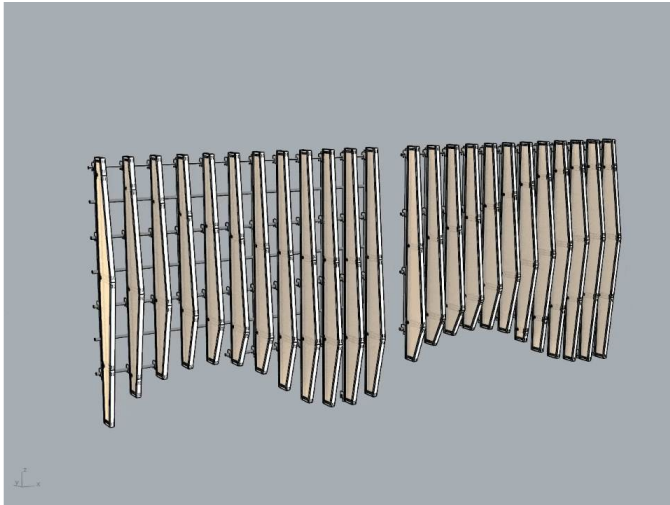
Designer and installation manager on multiple venues for Asian Olympics 2026. Short time, solutions on the fly, high pressure. On the pictures below you can see a few Grandstands and Turnkey solutions I worked on.



Events

WUF 2025

World Urban Forum Baku. Design, modeling and production of the facades. Extremely short timing, only few days from the beginning of the design process to the final model.



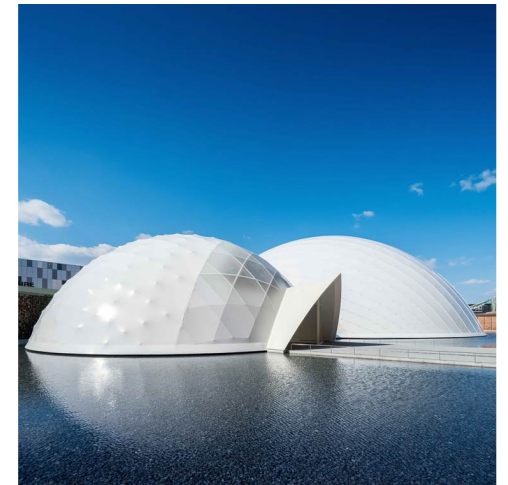
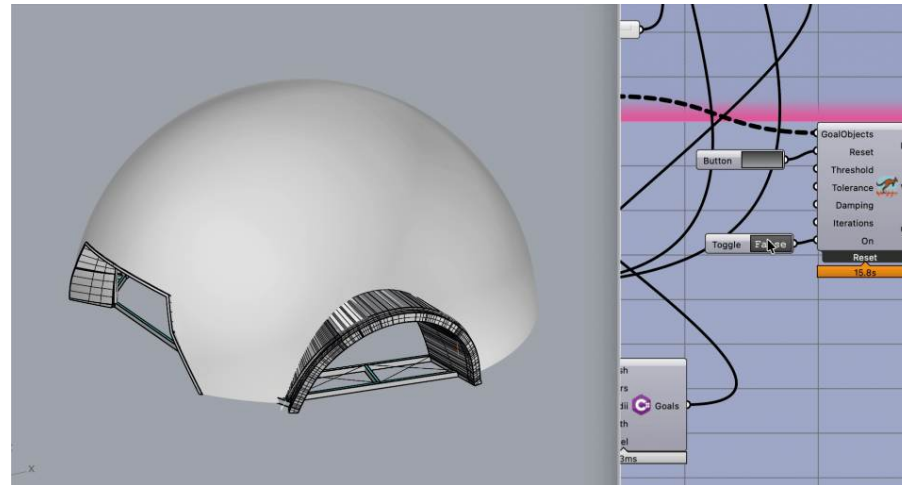
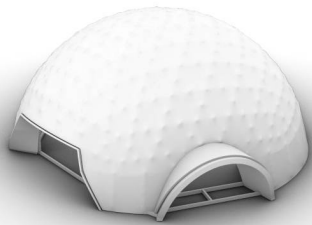
Events

Osaka Expo 2025

Ocean Dome Kangaroo simulation with custom goals.

In this project I did not play a big role; But it's for Shigeru Ban, can't go past it.

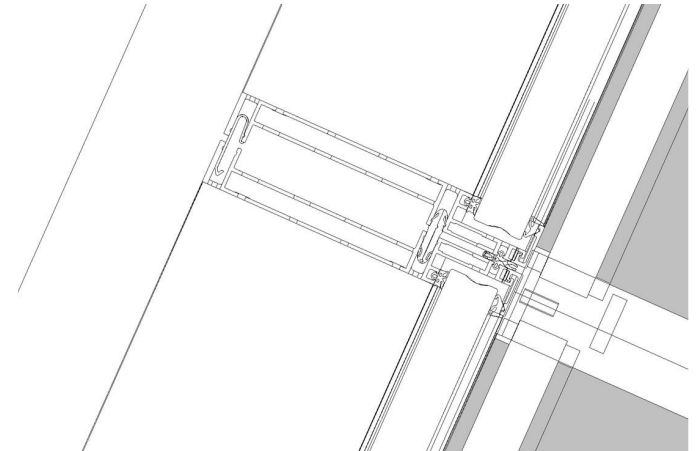
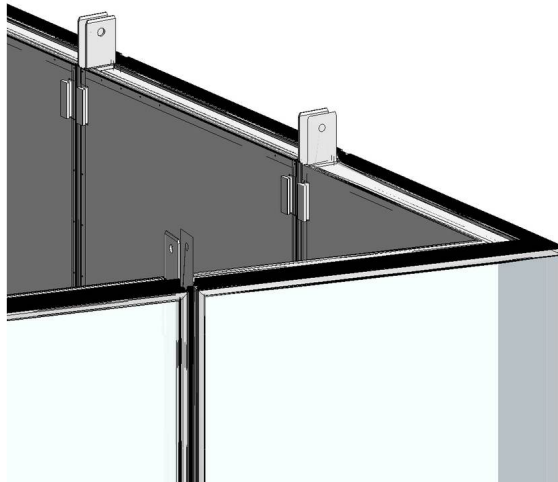
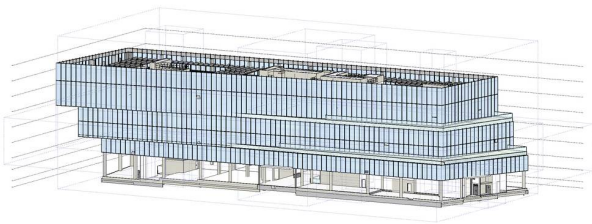
The simulation you see below is a new dome - continuation of the project, that will be located in France.



Unitize facade system

OVERVIEW

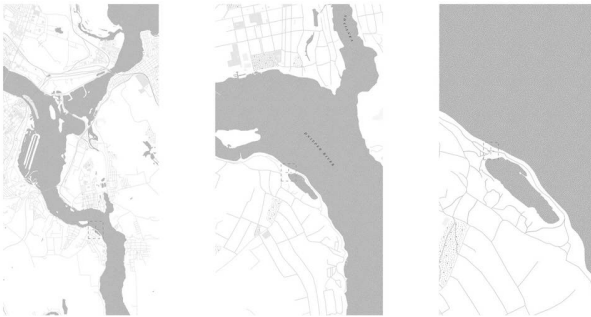
Parametric tool for detailing unitize systems or aluminium panels on facades in Revit. System is able create corner units with different angles. Inputs for the algorithm is a sample unit that we want to use, and a facade grid, that we would like to populate with it. Grid can be extracted from Revit curtain walls, provided from dwg or made in Rhino. As an output we get Revit families with uploaded units, scaled and placed to match provided grid. The algorithm creates new family for each unit of different size. Materials and parameters can be applied. Tables with materials can be exported.



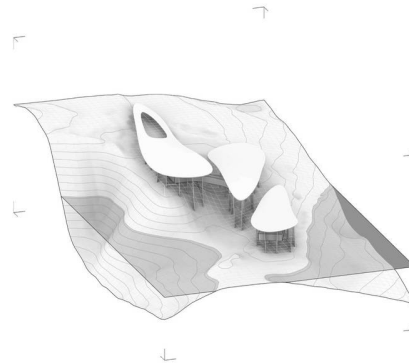
Diploma

OVERVIEW

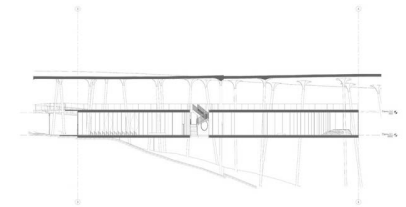
Bachelor's degree project, presenting exhibition centre for the city of Dnipro. The project was developed as a part of the city's development plan and is aimed at creating a new cultural and educational centre for the city. Entire project is made with Rhino inside Revit + Grasshopper and rendered in UE5.



Перед і в селі Старі Шапи, в районі Тарасівської річки, знаходиться територія будівництва, відведена у 18 сторіччя монастиром. Вона була та історично була відома як місце, де відбувалися різноманітні події. Проект передбачає створення нового культурного центру, який буде включати в себе музей, галерею та інші функції.



Варіант концепції нового культурного центру в районі Дніпро. Будівництво буде включати в себе музей, галерею та інші функції. Будівництво буде включати в себе музей, галерею та інші функції. Будівництво буде включати в себе музей, галерею та інші функції.



Внутрішній вигляд будівлі.

Other projects

SUNSHADE PROJECT IN HOUSTON

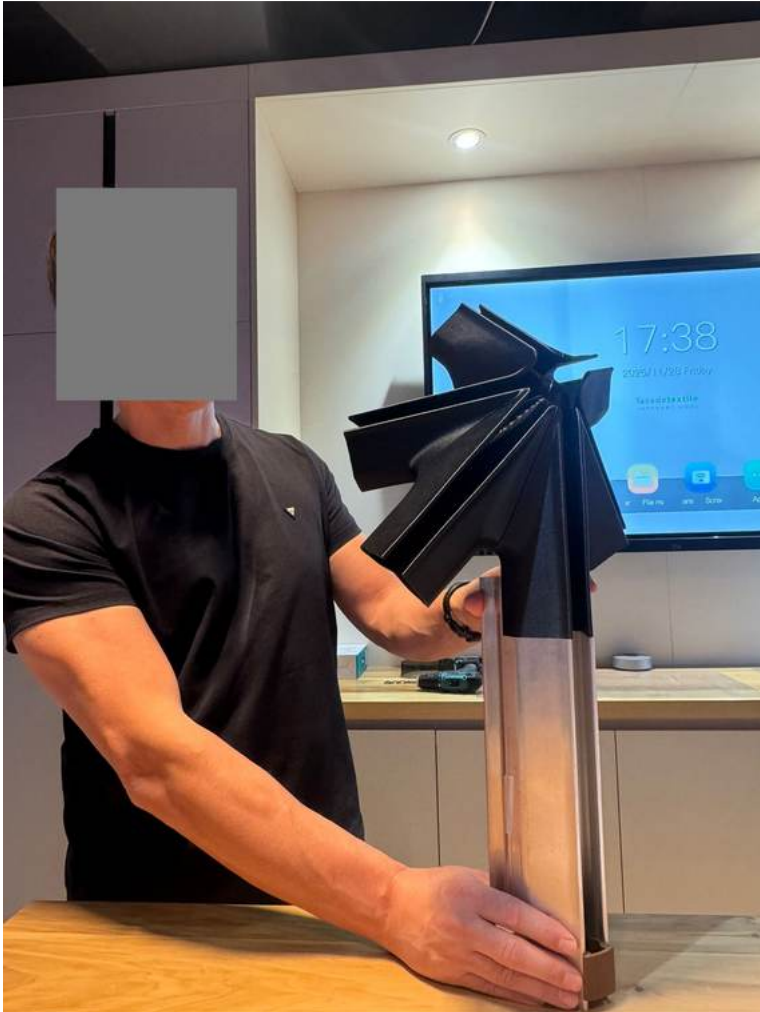
Designed and modeled metal 3d printed tensioners



Other projects

Tensile pavilion 3d prints in Bahrain

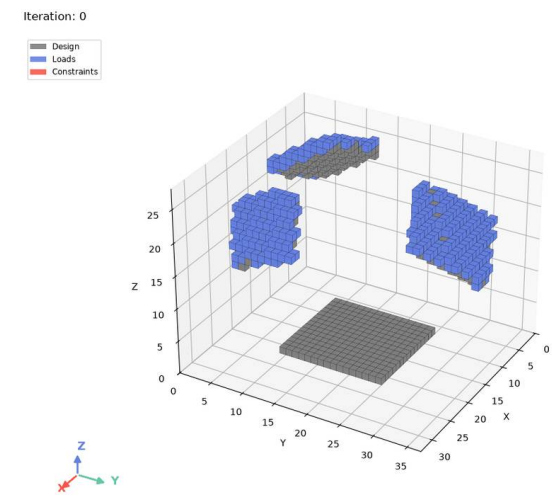
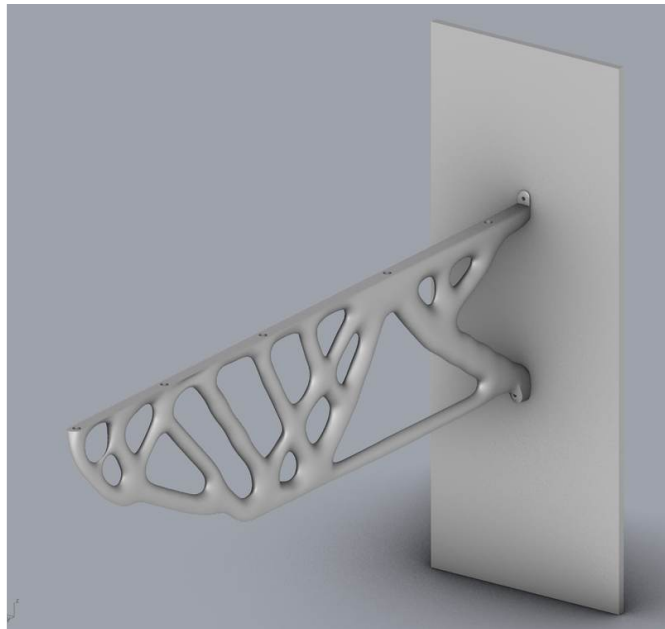
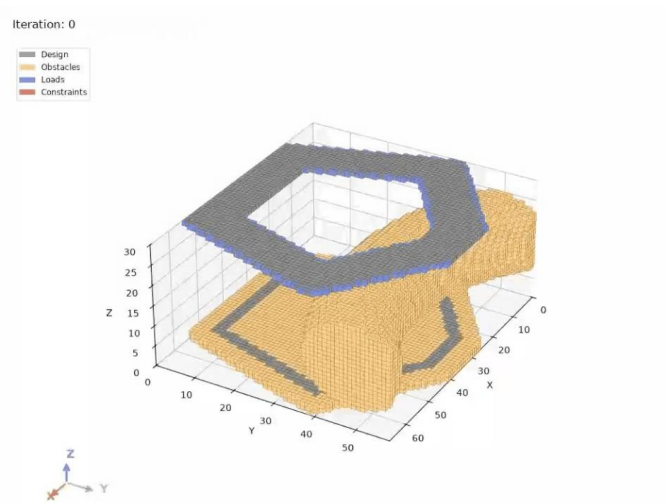
Designed a solution for carbon 3d printed connectors



Other projects

Topology optimisation experiments

Printed multiple TO'd models using modified code of Diatom plug-in.



CV

Ivan Grebennikov



26, ukrainian
architect/engineer/designer
author of multiple grasshopper plugins

career

- 2018-2022 bachelor degree in architecture
- 2021-2022 architect's assistant
- 2022-prnt upwork freelance
- 2023-2024 JOT company
- 2024-prnt Facade Textile International

skills

- parametric modeling
- conventional 3d modeling
- python, C#, VB
- data analysis
- BIM integration
- architecture visualization

software

- grasshopper 3d
- rhinoceros
- rhino inside revit
- grasshopper-archicad
- unreal engine

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