

# Resume

Pavel Koldunov,  
born 13.07.1993.  
BIM Coordinator

## Contacts:

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## Education:

*Higher education, Specialist degree – Voronezh State University of Architecture and Civil Engineering, 2011–2017*

*Faculty – Civil Engineering, Construction of Unique Buildings and Structures*

*Specialization – Civil Engineer*

## Work Experience:

**August 2022 – April 2025**

NPO Olimproekt, LLC “InzhStroyProject”

**Position:** BIM Coordinator

- Preparing storage files for structural designers.
- Creating families, Dynamo scripts according to specifications, and C# plug-ins.
- Editing the structural template, families and models, writing instructions.
- Managing the project and checking the model for clashes in Navisworks and for compliance with the BEP (BIM Execution Plan).
- Training and technical support for new employees, their certification.
- Delivering in-house seminars and a BIM academy for students.

## **January 2021 – July 2022**

Hamina Group, LLC Project-36, <https://hamingroup.ru/>

**Position:** Structural Engineer / BIM Specialist

- Developing design and working documentation stages for reinforced-concrete structures in Revit.
- Performing calculations of individual elements of a monolithic building in LIRA-SAPR.
- Also responsible for: setting up the Revit template for the structural section, creating families and necessary Dynamo scripts, training and consulting staff of the structural and architectural departments, and developing instructions for working with the structural template.

## **November 2020 – December 2020**

Agrotechholding Group, <https://agrotechholding.ru/>

**Position:** Structural Engineer

- Developing working documentation for reinforced-concrete structures.

## **September 2018 – October 2020**

LLC “TS Profil-Group”, <http://ts-prof.ru/>

**Position:** Design Engineer

- Designing steel structures for production.
- Developing project sections for buildings and structures made of light gauge steel frames (LGSF) and conventional structural steel, in accordance with the client’s technical assignment.

Design workflow:

- Creating the analytical model in Revit + Robot + SCAD.
- Analyzing the frame and joints in Robot.
- Selecting and designing the foundation for the frame.
- Detailing the frame in Advance Steel.
- Detailing the foundation in Revit.
- Preparing tasks for metal-rolling production lines.
- Preparing the design report.

Additional responsibilities:

- Author's supervision.
- Ability to configure and maintain metal-rolling equipment.

### Skills:

#### **Advanced level**

AutoCAD, Autodesk Revit, Revit API, Dynamo, Navisworks

#### **Intermediate level**

Autodesk Advance Steel, Autodesk Robot Structural Analysis, IronPython, MS Word, MS Excel, MS Project, LIRA-SAPR 2021, VBA coding

#### **Basic level**

SCAD, Mathcad, Autodesk 3ds Max, PyTorch, C#

### About Me:

I am developing as a BIM specialist; I understand the creation of BIM standards and the setup of a Common Data Environment.

I work with the Revit API in Python and C#, and I am proficient with Dynamo, writing scripts and plug-ins for automation.

# PORTFOLIO

## Plugins

### *Unification of rebar lengths*

Rounds the lengths of the selected bars to a multiple. Works also with bent rods.

УНИФИКАЦИЯ ДЛИН СТЕРЖНЕЙ

инструкция

☐ Поверх других окон

Стандартные длины Олимппроекта:

1300, 1650, 1950, 2300, 2900, 3300, 3900, 4600, 5200, 5850, 6500, 7100, 7800, 8800, 9400, 9750, 10400, 11700

☐ Применить свой список длин

Введите свой список длин. Например: 1000, 3000, 10000

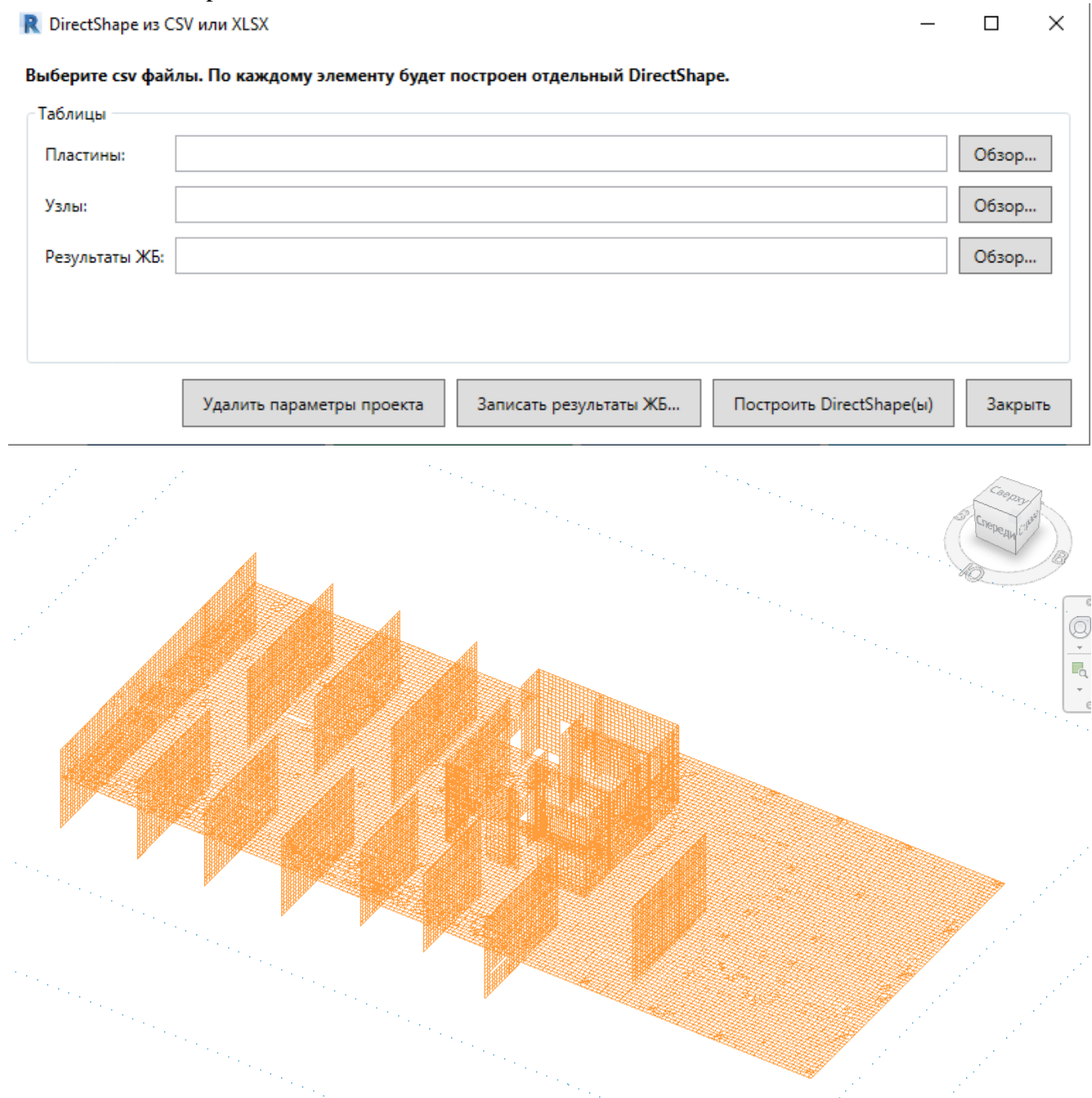
☐ Изменить короткий отгиб (True) или длинный (False) для П и Г

ВЫПОЛНИТЬ

*Pic. 1*

## Creating a FE diagram in a Revit model.

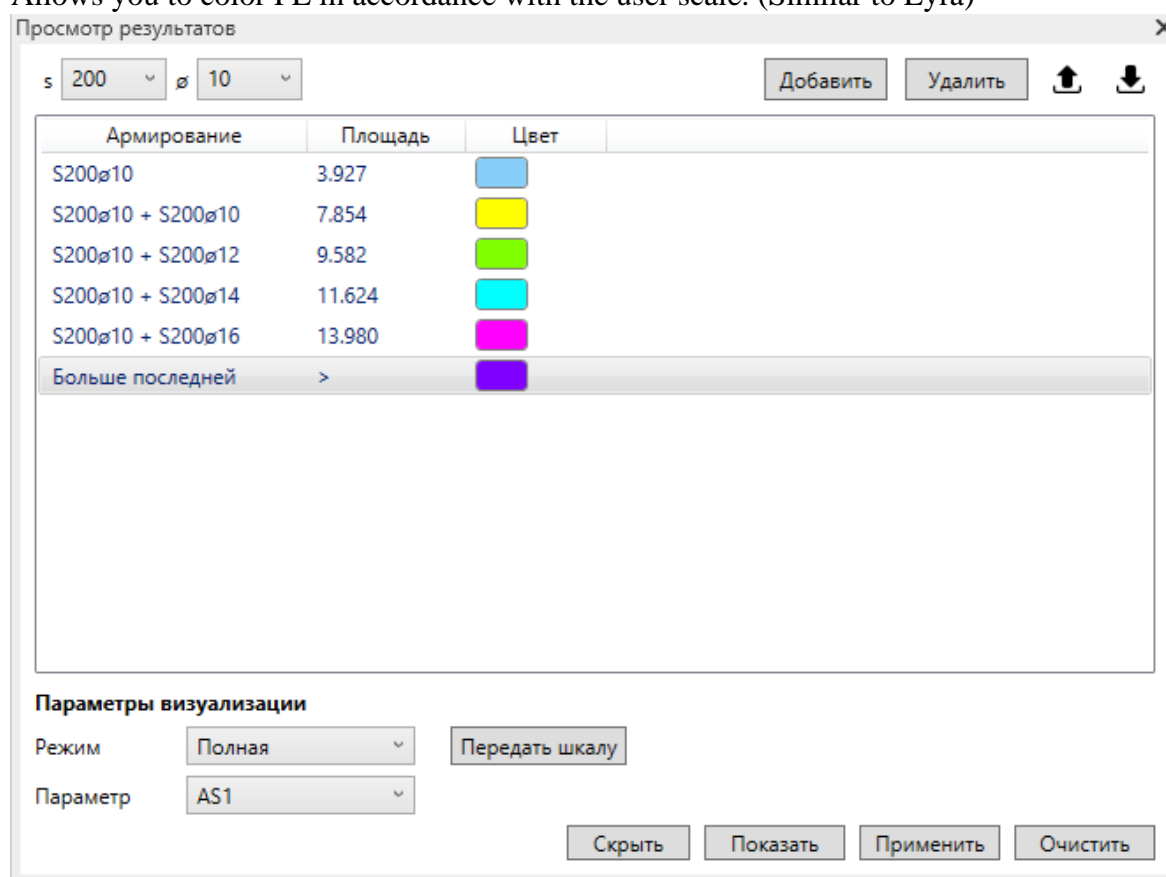
Builds a DirectShape in the model to view reinforcement results.



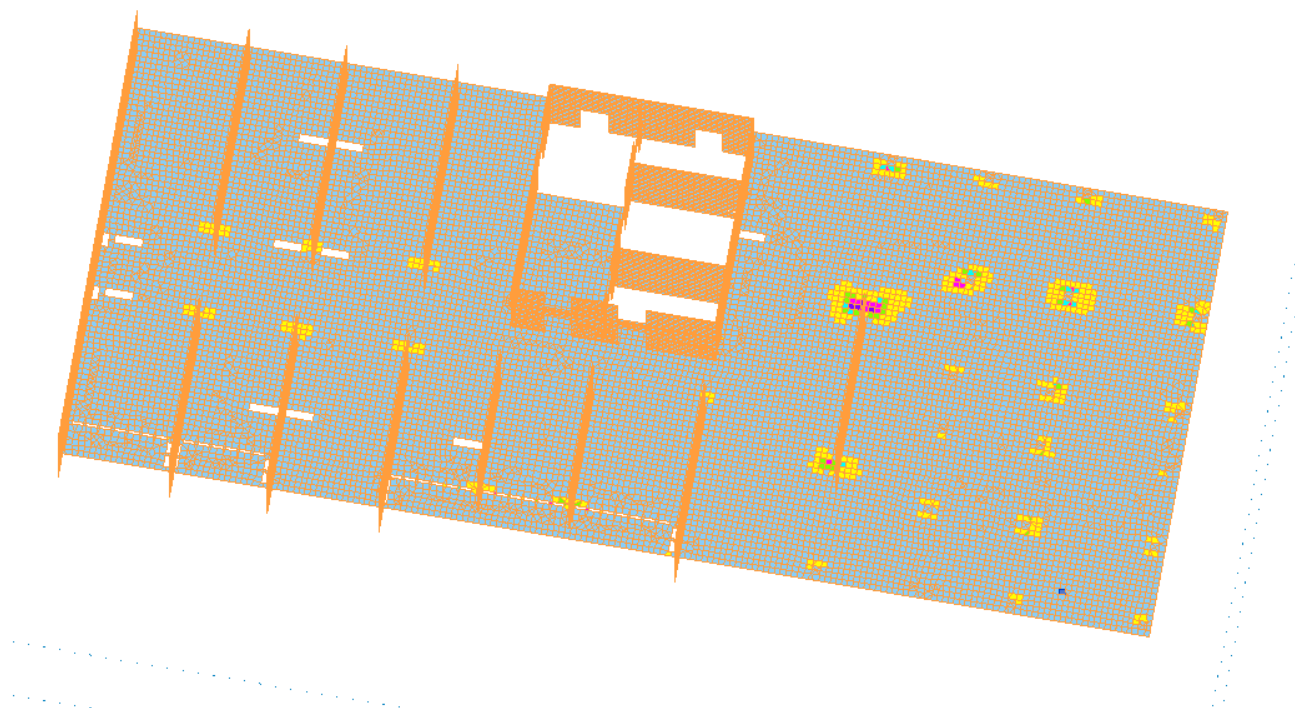
Pic. 2 The scheme is similar to the scheme in LIRA-SAPR

## Viewing reinforcement results

Allows you to color FE in accordance with the user scale. (Similar to Lyra)



Pic. 3



Pic. 4 fields according to AS4

### Layout of additional reinforcement along isofields.

Covers zones with straight bars, taking into account the reinforcement utilization factor. It also repaints the FE taking into account the additional component and its utilization factor.

**Доп армирование по траектории** — □ ×

**Выбор**

Выбрать конструкции (плиты/стены) Выбрано: 0

Выбрать оси (X, затем Y) X: 1.000; 0.000; 0.000 | Y: 0.000; 0.000; 1.000

**Фоновое армирование**

Первая сетка: По X Третья сетка: По Y

Диаметр фона, мм: 10 Шаг фона, мм: 200

Защитный слой сверху, мм: 25 Снизу, мм: 25

Толеранс пятен, мм: 600

**Раскладка допа**

☐ Низ по X ☐ Низ по Y ☒ Верх по X ☐ Верх по Y

Диаметры допа, мм (через ,): 10, 12, 14, 16, 18, 20, 25, 28

Анкеровка, мм (через ,): 415, 500, 580, 662, 745, 830, 1035, 1160

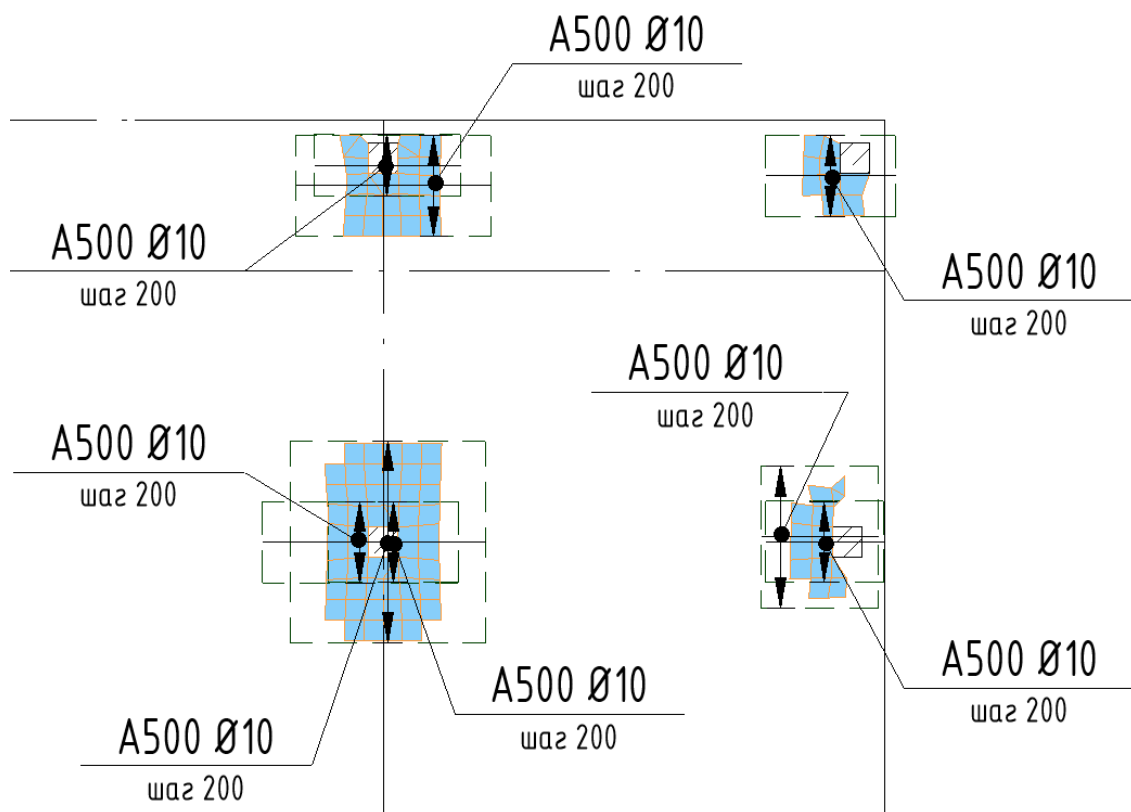
Кратные длины, мм (через ,): 1170, 1300, 1460, 1670, 1950, 2340, 2920, 3900, 5850, 11700

**Журнал**

Оси восстановлены из настроек.

Краска Анализ пятен Первый доп Новый доп Закрыть

Pic. 5 Plugin window



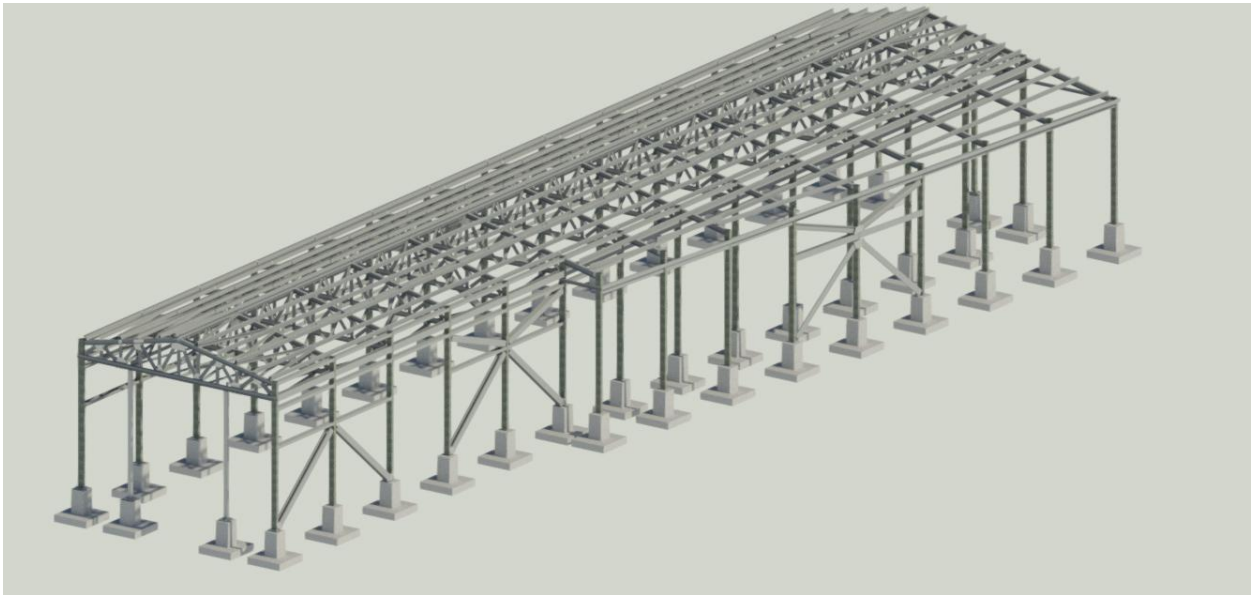
Pic. 6 Layout of additional equipment and repainting of covered FEs



### *Dynamo scripts*

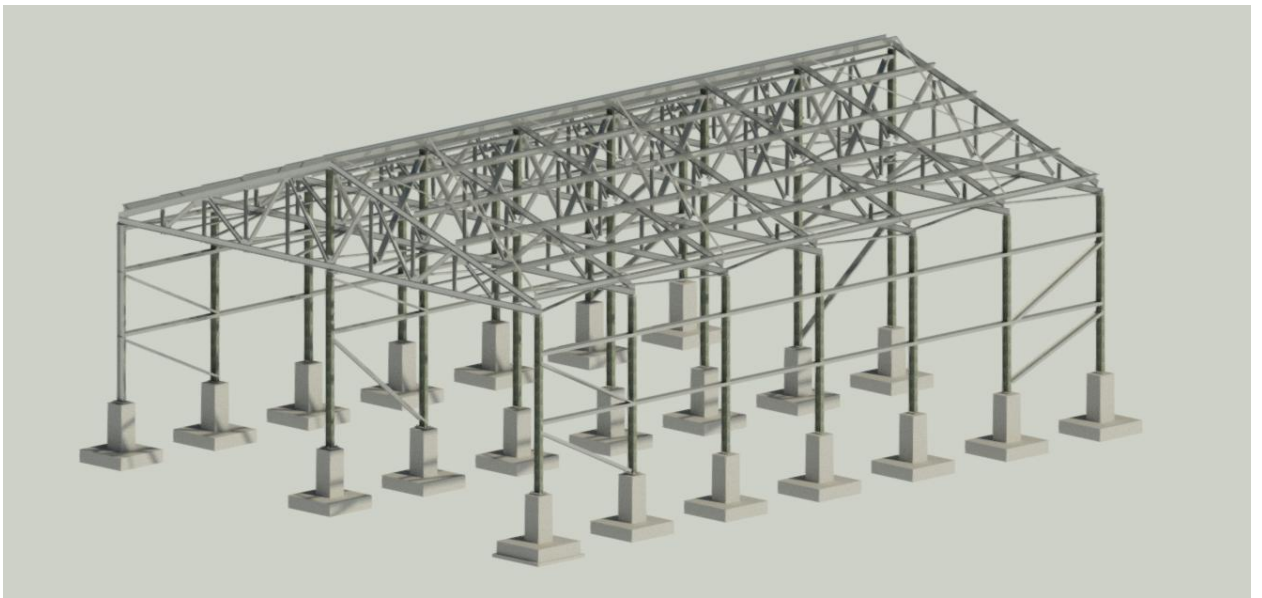
I also created various scripts. For example, checking reinforcement for duplication of rods in the model, creating the boundaries of pit slopes by importing general plan points from Civil, creating a facade from pipes using an architectural model, framing holes with rods.

### Structural projects

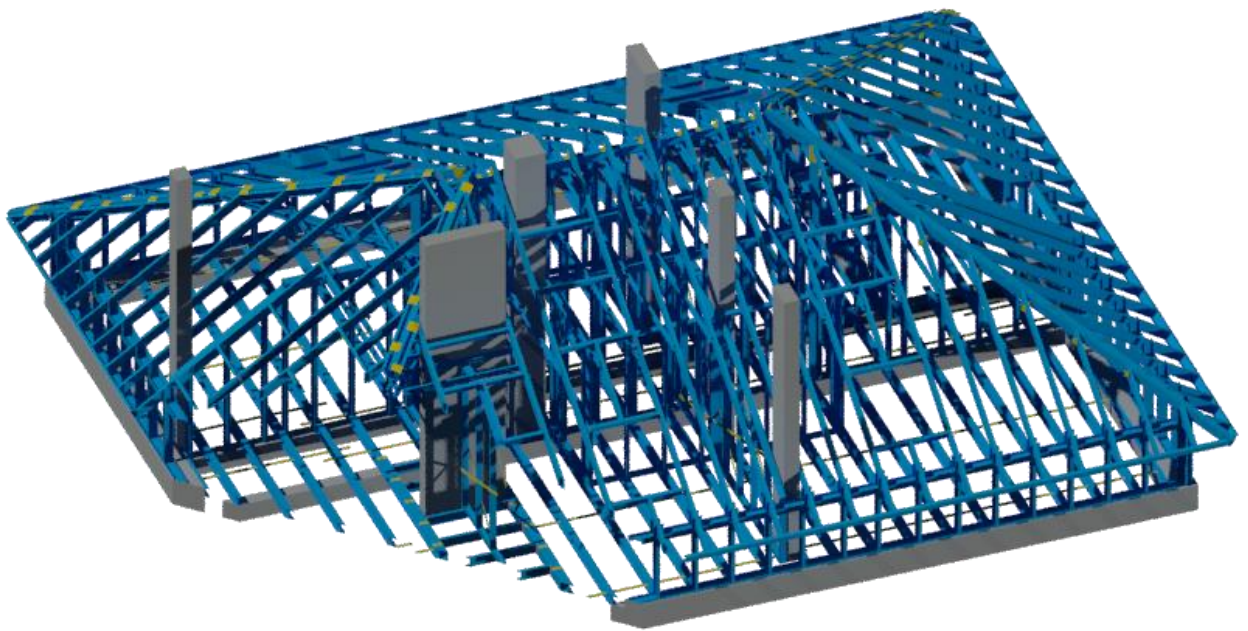


*Pic 1. Warehouse area 570 m2*

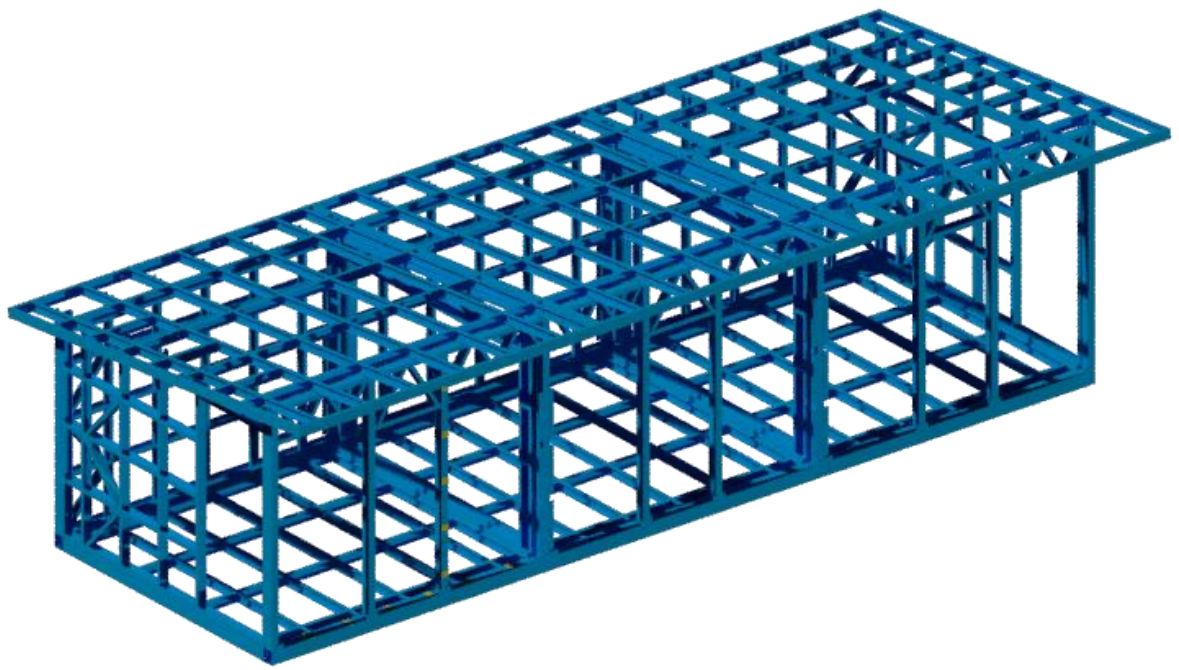




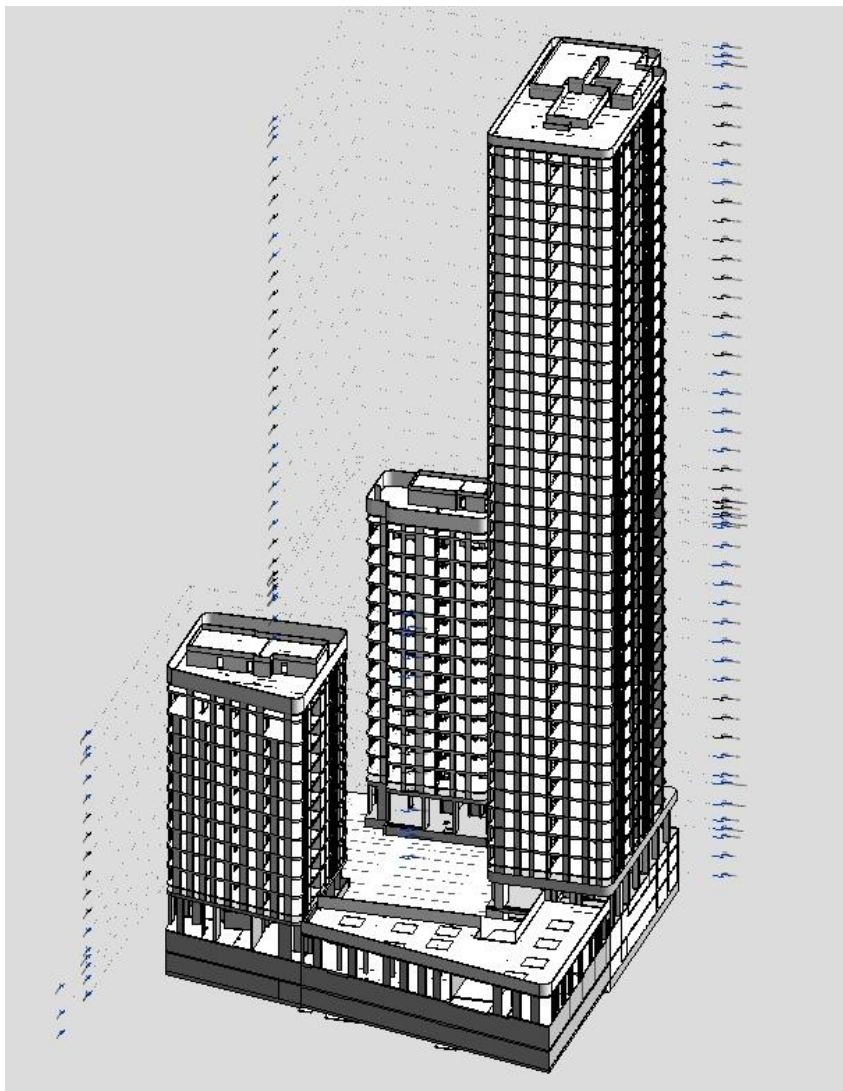
*Рисунок 2. Warehouse area 432 m2*



*Pic 3. mansard*



*Pic 4. For the market*



*Pic 5. Residential complex*