

Co-working space on the last floors of the high-rise building.



In cooperation with “AL.Team architectural studio” our team were in charge of HVAC system of the working space.

Location

Yerevan, Armenia

Services

HVAC design, BIM, Construction



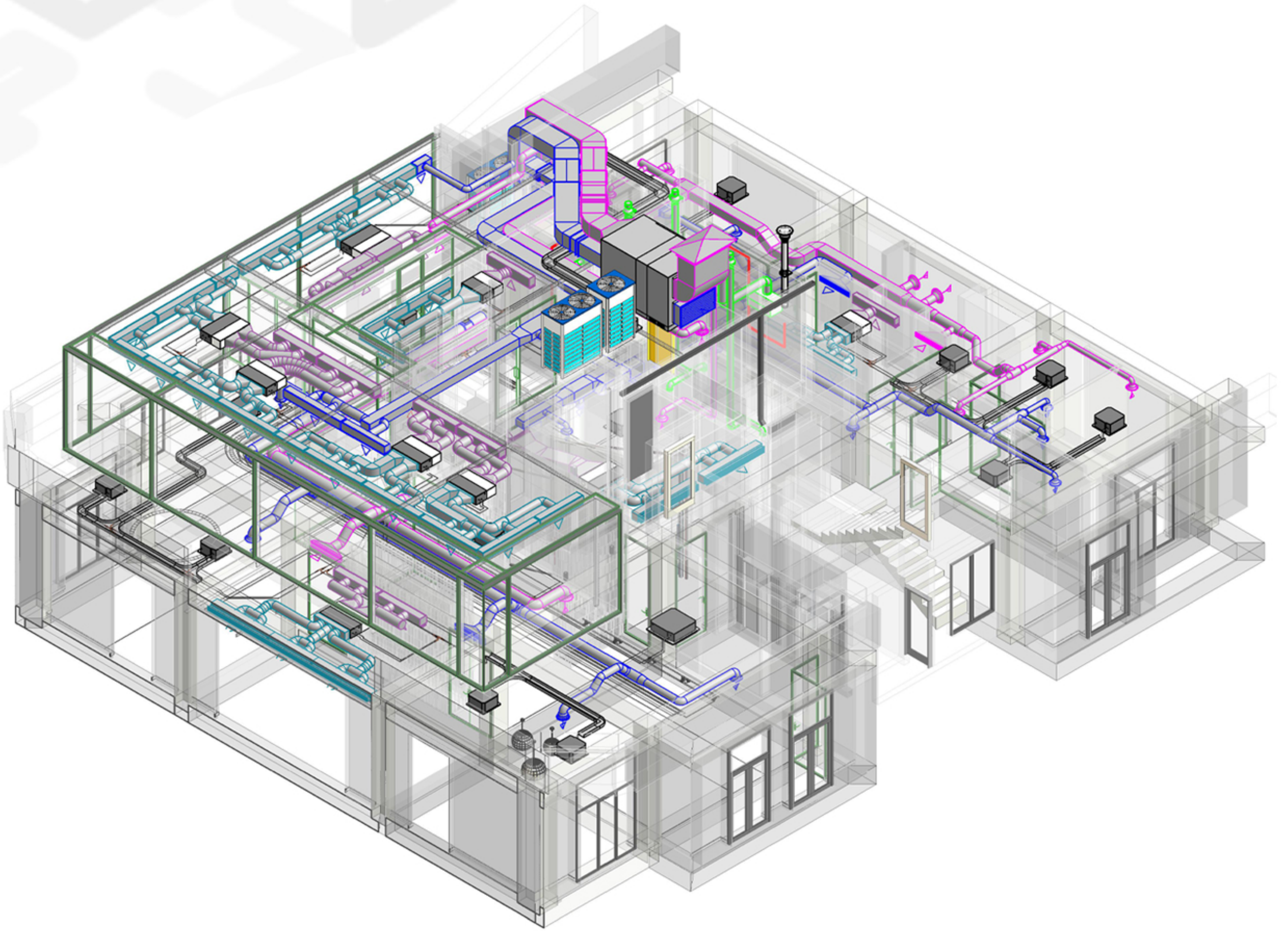
On the design stage team of BIM technicians developed detailed and realistic model of MEP systems taking into consideration project requirements. BIM model used in pre-construction stage and was ready to handover to construction project implementation team. Using application based on augmented reality team of BIM technicians provided ongoing support on construction stage.



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Design and MEP modeling

Design and modeling in 3D provides realistic design solutions ready for implementation and further maintenance.



Software:  AUTODESK REVIT



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Clash Detection

Easy to collaborate with subcontractors
and quick troubleshooting with clashes.

The screenshot displays the Autodesk Navisworks Manage 2022 interface. The main window shows a 3D model of a building structure with a red and green clash highlighted. The 'Clash Detective' window is open, showing the results of a clash detection run for 'MEP vs Structure'.

Clash Detective - MEP vs Structure
Last Run: Friday, January 29, 2021 12:00:37 PM
Clashes - Total: 202 (Open: 199 Closed: 3)

Name	Status	Clashes	New	Active	Reviewed	Approved	Resolved
MEP vs Structure	Done	202	192	4	3	1	2

Clash List:

Name	Status	Level	Grid Interse...
Clash103	Active	T.C. @ Level 1B (-29)	D-3
Clash104	Approved	Grade (-30)	B.3-13
Clash105	Resolved	T.C. @ Level 1B (-28)	E.9-9
Clash106	Active	T.C. @ Level 1B (-28)	D.1-9
Clash107	Reviewed	T.C. @ Level 2 (-27)	D.1-5
Clash108	Reviewed	Grade (-30)	A.2(-2)-13
Clash109	Resolved	Grade (-30)	A.2-13
Clash110	Active	Grade (-30)	A.3(2)-12.1(2)
Clash111	Reviewed	T.C. @ Level 2 (-27)	D.1(-2)-6
Clash112	New	T.C. @ Level 1B (-28)	D.8-1
Clash113	Active	Grade (-30)	C.9-5

Display Settings:

- Highlighting: Item 1 (Red), Item 2 (Green), Use item colors, Highlight all clashes
- Isolation: Dim Other, Hide Other, Transparent dimming (checked), Auto reveal
- Viewpoint: Auto-update, Animate transitions, Focus on Clash



AR in pre-construction and construction stages

We have eliminated massive collisions with construction elements, and other engineering systems during the pre-construction and construction stages of the project. Another benefit was to control the installation process according to the design, and HVAC model.



Software:



GAMMA AR



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