



Andrey Kumskov

BIM Manager with 10-years' experience

With Structural Engineer background and Software Development skills

Portfolio

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| Indonesia

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My 16th year's experience in construction industry has allowed me to see the digital process from two different perspectives. On the client side my experience has helped me to understand exactly what the clients needs are. Working experience with a consulting company (AECOM) has helped me to realize each client's needs. Knowledge of Python language helps me increase business efficiency.

WORK EXPERIENCE

Role	Company	2008	2011	2012	2013	2015	2020	2022
BIM Leader	AECOM							
BIM Manager	VTB Realty							
BIM coordinator	AECOM							
Data Analysis, Python Developer	VTB Realty							
Own's Laser scanning projects	Moscow Institute of ...							
Senior structural engineer	GGO							
	Ramboll							
Structural engineer	Studia M							

EDUCATION

University of Architecture and Civil Engineering,
Volgograd State, Russia Bachelor's Degree, Civil Engineer,
2006,
Linkedin Learning - Working with Difficult People; Stepic -
Introduction to Statistics; Stepic - Introduction to Data Science;
Stepic - Python language, Django

PROJECTS (over 20)

- Water Park and Theme Park in Barka, Oman
- Industrial Warehouses, Russia, 250 hectares, 700+ models
- VTB Arena Park, 180 000m², 7 store building with base ground retail zone. A lot of unique engineering and structural decisions.
- Oil&Gas facilities, 21 buildings, 64 000m²,
- Pulkovo Airport, St. Petersburg

LANGUAGES

- Russian (native)
- English (upper intermediate)

PERSONAL PROFILE

I like outdoor activities, camping, rafting, horse riding, reading books, do a presentation.

TECHNICAL SKILLS

Revit

Navisworks

BIM360

ProjectWise

Python

Power BI

SOFT SKILLS

Mentoring

Presentation skills

Learnability

Team player

REFERENCES

David Philp, AECOM, Scotland, Director Digital Consulting
david@aecom.uk, C: +4407823354924

Paul Willson, AECOM, UK, Digital Director Europe
paul.g.wilson@aecom.com

ACHIEVEMENTS

- Winner of **World Skills Championship** 2020 as a Team Leader,
- **EMEA Techstar** (according to an internal vote at AECOM EMEA),
- Presentations at **Autodesk University** 2011, 2012, 2013, 2014, 2016, 2018, 2020, 2021

RESPONSIBILITIES

VTB Realty, Moscow — BIM Manager March 2020 - PRESENT

- I responsible for implementation of Digital Technology at the construction and design stages on Client side.
- Grew digital competences for business processes, facilitating clear and concise communication between the finance, design and construction departments using BIM information technology.
- Evaluate the BIM competencies of sub consulting companies.
- Preparing preliminary specifications, EIR, BEP for the General Designer, the General Contractor and other stakeholders. Managing the Design progress of our subcontractors.
- I use Data Analysis methods in Python and Power BI for manage the project information.
- Creating and developing Classifier for classification BIM objects, BoQ data and construction schedules
- Managing the capturing process DJI Drone, piloting, capturing, post processing, and calculation the volume of earthwork.

AECOM, Moscow — Regional digital leader March 2014 - March 2020

- Managing the BIM department with a staff complement of 6 to 7 members in Moscow and St Petersburg.
- Integration of AECOM best international practices, ISO 19650, LOD, COBie, OmniClass, ISO, AIA protocols.
- Quality control and clash detection procedures.
- VR, AR; modeling for construction and operation stages, development of 4D and 5D models.
- Collaboration with the international teams from Spain, Italy, UAE Abu-Dhabi, South Africa and Scotland.
- Administration of engineering data management system (BIM360, ProjectWise).
- Teaching peers how to use BIM360, Revit, Navisworks, Vault, Projectwise (technical aspects).
- Teaching and consulting project managers regarding implementation of project execution specifics by means of information modeling.



PROJECTS DESCRIPTION

Industrial Warehouse Cluster, Russia – BIM Project Manager, more than 300 BIM models, approx. 240 000 sq.m, 30 buildings.

Multimodal Warehouse, Russia - facility land footprint approx. 145 hectares, 417 BIM Models, 33 buildings

Water Park and Theme Park in Barka, Oman – BIM Project Manager, coordination Architectural team from Moscow to Abu Dhabi team.

Oil&Gas facilities, Russia — BIM Project Manager. The project comprises 21 buildings with gross area 64 000 sq.m. The special feature of the project is the Client's focus on BIM part, collaboration with the international team, high quality BIM models for drawings preparation. BIM modelling at all stages of procurement.

Gazprom Minks Multifunctional Complex, Belarus, approx. 260 000 sq.m. BIM Project Manager. The project, gross area about 260 000 sq.m., comprises eleven buildings of different complexity and function, starting from high-rise buildings and energy center to offices, and an underground 2-level parking lot. This project is one of the most important and complicated projects, where we could develop BIM models with a high level of details and organize the process of document delivery directly from the models for the Detailed Design stage for all packages.

VTB Arena Park , Dinamo Stadium, Russia approx. 180 000 sq.m.

BIM Manager; BIM process management for the project with the area over 180 000 sq.m. highly equipped with a complicated engineering systems; setup of the shared space; coordination of contractors in terms of design solutions; BIM design alignment with installation and construction works. This project is as a critical one, where for the first time we could apply the BIM design at the construction stage.

Spartak Arena Stadium, 120 000 sq.m.

"Otkrytie Arena" project is notable for its compact configuration: nice view coverage and 42 000 places; festive atmosphere for football fans; the project is supported with economic efficiency calculations, it has an elegant and easy to build structure, which foreseen specifics of Moscow weather.

Pulkovo Airport, St. Petersburg

The project includes large-scale construction and expansion of Pulkovo airport existing structures in St. Petersburg to increase the passenger flow up to 14 mln passengers per year and up to 17 mln passengers per year in the next stage. During redevelopment of the existing terminal (Pulkovo 1) main people flows will be localized in the new terminal and "Northern Pier".