

FWS HELPED WITH CONVERSION OF POINT CLOUD RENDERING TO REVIT MODELS FOR UK-BASED CONSTRUCTION FIRM



Client Profile - Building Information Modeling (BIM) Consultant

The client is based in the United Kingdom and has provided advanced surveying support to architects, construction firms and engineering companies for 30 years. Specialized services include clash detection, movement monitoring, BIM models and utility tracing.

Client Requirements and Challenges - BIM and Revit Conversion Support

The client needed support for reconstructing a textile mill. Because many original blueprints were missing, requirements included capturing point cloud data with scanners and then converting architectural designs to Revit models before the original building was demolished. The project encompassed the entire industrial building and all features such as piping structures, wiring and other MEP (mechanical, electrical and plumbing) equipment.

The project involved this primary challenge -

- + Obtaining enough point cloud data to ensure accuracy of new drawings.

The Solution - By Flatworld Solutions

The Flatworld Solutions BIM and drafting specialists developed this solution -

- + The team included a project manager, four drafters and a BIM coordinator.
- + Team members communicated regularly with the client to review accuracy of point cloud data.
- + LOD (level of detail) 200 was used for creating the new design.
- + The project was completed successfully in about six weeks.

Final Results - Completed Point Cloud to Revit Conversion in 6 Weeks

This project demonstrates a common engineering and drafting scenario - missing blueprints when building renovations, restorations and reconstruction are required. Overcoming this challenge requires advanced experience in tasks such as point cloud to Revit conversion. In this case, the client was pleased with project results provided by Flatworld Solutions (FWS).

FWS is an ISO certified global provider of outsourcing services - with two decades of experience working with Fortune 1000 companies as well as private enterprises of all sizes. We have more than 70 BIM modelers, structural engineers and drafters that are skilled at identifying base-layer clash issues and converting legacy drawings and blueprints to BIM models. Our engineering design services help building professionals monitor all safety parameters, meet international construction standards and obtain cost-effective CAD drawings for 2D and 3D designs.

Flatworks Solutions industrial engineering professionals are proficient in Revit BIM software, AutoCAD and more. We have a multilingual team that works with ease in multiple languages - drafting and engineering projects can involve any preferred language. [Contact us](#) today for our no-cost assessment and quote regarding your next project.