silverskills
applying intelligence to processes

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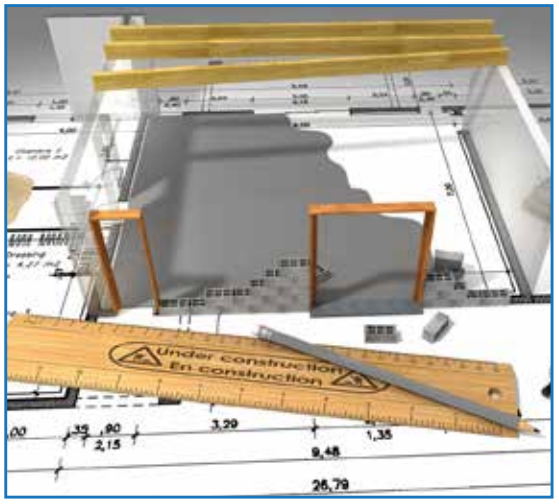
Engineering Services

Silverskills Engineering Services is a boutique design support services provider offering comprehensive CAD design and Building Information Modelling (BIM) services across all stages of Planning, Design, Construction and Management.

Bringing together a strong team of qualified architects, engineers and technicians with in-depth knowledge of British, European and American codes-of-practice, we are able to support organisations of all sizes in the Architecture, Engineering and Construction industry. We offer a reliable and cost-effective natural extension of your in-house technical team on demand.



Offerings and Experience

CAD Drafting (2D & 3D)	BIM Modelling	Scan-to-BIM (point cloud modelling)	Land subdivision & tract optimisation
• CAD conversions from - Paper / Scanned PDF / TIFF drawings • CAD drafting from a freehand sketch / redline mark - ups • As - built drawings • SD to DD drawings	• Family creation using Revit • CAD Symbols to Revit Libraries • Clash detection using Autodesk Navisworks • Integration of Services • BIM for Analysis • Transition Support from CAD to BIM: onsite and offsite	• External facades & internal surfaces to specified LOD • Architectural, Structural, Mechanical & Electrical • Landscaping • Residential & commercial buildings • Historic monuments and listed	• Understanding of zoning and technical subdivision requirements • Preliminary subdivision plans • Final subdivision of plots

Why outsource Design Activities?

- Significant time and cost savings
- Operational efficiency
- Manage resourcing peaks and troughs
- Access to a global talent tool
- Lower risk of staff availability given set project deadlines
- High quality results

Why Silverskills?

- Extensive outsourcing experience
- Long-lasting relationships with global industry leaders in multiple sectors
- High accuracy and quality of work with competitive turnaround times
- Scalability
- Data Security – ISO 27001 certified & HIPAA compliant (US)

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CASE STUDIES

Client
Leading Manchester based scanning firm

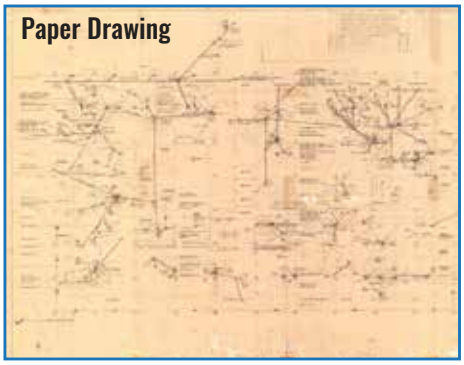
Project Name & Location
Hospital Building in London

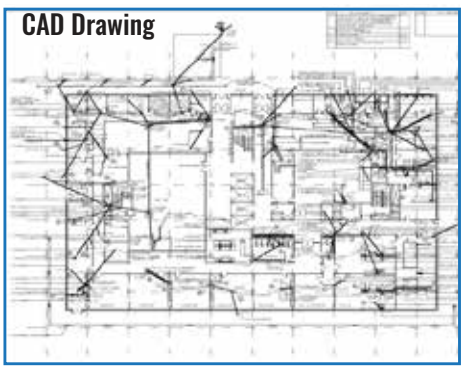
Nature of Work
Paper to CAD Conversion

Results
Fully editable, layered (to British Standards) 2D CAD drawings were created from hand-drawn, legacy hospital drawings of the 1970s, which were scanned to PDFs. These drawings were to be used to carry out extensive renovations and extensions to the existing hospital building.

Silverskills utilized its in-depth knowledge of British Standards to deliver high quality CAD drawings ahead of the timeframes set and at very competitive cost. This allowed the client to deliver work ahead of schedule and resulted in multiple batches of drawings for conversion subsequently being sent to Silverskills on a weekly basis.

CAD DRAFTING





Client
Fortune 500 real estate organization (London offices)

Project Name & Location
Ground floor interior of a commercial building in London

Nature of Work
Scan to BIM (point cloud modelling) in Revit

Results
The 3D model was developed using Point Cloud scan data. The elements modelled included the complete architectural, structural, interior, lighting fixtures, electrical & mechanical fixtures.

Silverskills delivered this model as a pilot to assess quality and timeliness of our work. The client carried out a stringent assessment of the model and found it to be of a very high standard. Within an extremely competitive environment, Silverskills was selected to proceed to pricing discussions in order to become the client's chief modelling partner for a portfolio of properties across London.

SCAN-TO-BIM

