

Yash Bhamre

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Work History

Jan 2023 – Present	Structural Design Engineer (Contract), S C Designs
	<ul style="list-style-type: none">Working on 3 BIM structural engineering contracts in Revit, remotely, with 2 solo commissions and 1 UK renewable scheme, plus 2 US residential builds continuing into 2026.Previously, on a Structural BIM Modelling project for the Residential Pole Barn House in Washington in 2025, for a private client in Vernon, I built Revit architectural and structural models, set out timber framing, columns, beams, roof and floor systems, set foundation levels, and issued elevations, sections, and connection drawings ready for construction.For Structural BIM Modelling on Sarasota Dormitories, Florida, in 2025, at Plant City/Highway 92W, I worked in BIM 360 alongside 20 engineers, architects, MEP engineers, and BIM coordinators, modelling reinforced concrete frames, stairs, slabs, and roof elements, plus metal roofing, insulation layers, and gutter framing.Finally, for the BIM planning and visualisation on the Mercedes-Benz Solar Car Park in Milton Keynes in 2024, commissioned by 3Ti Energy Hubs Ltd, I used Google Maps site tracing to produce a master plan, 3D model, PV canopy geometry, parking bays, and presentation renders for client review.
Feb 2022 – Jan 2023	Structural Design Engineer, Thyssenkrupp Industrial Solutions
	<ul style="list-style-type: none">As part of the GACL, Gujarat programme, I designed steel pipe racks, pipe bridges, process platforms and industrial buildings in steel and RCC, including G+3 Cell House and G+13 Granulation Steel Building.Using STAAD Pro and ETABS, I ran FEA checks for raft foundations, ULS and SLS cases, and seismic load scenarios, supported by MS Excel automation sheets and Power BI dashboards.Built and maintained Revit and Tekla Structures models, ran Navisworks clash reviews, and produced AutoCAD outputs via BIM 360 information control following ISO 19650.Within a 150-person multidisciplinary team, delivered £2M+ EPC outputs to the programme, achieving efficiency gains and fewer clashes during construction.
Apr 2021 – Jan 2022	Structural Design Engineer, Burns & McDonnell
	<ul style="list-style-type: none">Supported the Reliance Industries Limited Polyester Complex, designing & analysing structural steel and RCC deliverables for ISBL and OSBL areas, federating models in Navisworks and MicroStation for clash reviews with MEP layouts.Using Revit, Tekla Structures and BIM 360, I kept engineering and as-built BIM models current and built MS Excel spreadsheets for foundation checks and quantity take-offs.Produced standard, fabrication and architectural drawings, plus SOQs, specifications, TBAs and MTOs, applying ductile reinforcement provisions for RCC and structural steel.In a 170+ EPC team, my BIM coordination reduced site rework and supported £2M+ packages, with 11,000 tonnes of steel and 135,000 m³ RCC tracked for delivery at Burns & McDonnell.
Oct 2020 – Mar 2021	Structural Engineer, A.K. Consultancy
Aug 2016 – Jun 2017	Junior Civil Engineer, A.K. Consultancy
	<ul style="list-style-type: none">Progressed from Junior Civil Engineer to Structural Engineer in between projects.My roles covered industrial sheds and platforms in steel and RCC, where I produced calculation packs, built Microsoft Excel worksheets for foundation sizing, and maintained model information within BIM 360.On the State Highway & Bridge Engineering Support – Amravati District project in 2016, I supported road and bridge condition assessment, capturing pavement condition, structural defects, and serviceability along a 210 km corridor.Using Total Station surveying, AutoCAD drafting, and MS Excel calculations, I verified highway route geometry and bridge location data, then applied IRC (Indian Roads Congress), IRC SP 16 and IRC SP 13 requirements to steel and RCC bridge engineering outputs.Within public infrastructure highway projects backed by large-scale government funding and a team of 15 professionals, I held accountability for site-to-office data handover, raising confidence in drawing packs and BIM 360 records that supported rehabilitation and upgrade decisions for safer, more durable structures.
Jun 2019 – Oct 2020	Structural Design Engineer, Thyssenkrupp Industrial Solutions
	<ul style="list-style-type: none">Supported GINAL at Dahej, Gujarat, MOL in Egypt, and NCIC.Within 3 months of joining, I became the 1st junior engineer promoted to the NCIC Task Force, earning early responsibility for engineering outputs and model coordination.Produced steel pipe racks, pipe bridges and platforms, plus RCC buildings up to G+13 and raft foundations for G+3 cell houses using STAAD Pro.MicroStation formed my core drafting tool, while Revit, Tekla Structures, Navisworks & BIM 360 supported model control and ISO 19650 information control.Within a 25-person multidisciplinary group, I delivered £2M+ EPC deliverables with FEA checks, ULS and SLS verification, and fewer BIM clashes during construction.

Feb 2018 – Jun 2019

Engineer, CNSES Global

- Delivered structural engineering outputs for industrial and building projects.
- Ran **STAAD Pro** models for steel pipe racks and industrial sheds, plus RCC frames for G+10 commercial and residential buildings, with **MS Excel** checks.
- Built **MS Excel** automation sheets for bolted and welded connection checks and foundation sizing, improving consistency between calculations and drawings.
- Supported senior engineers with load combinations, steel member selection & RCC reinforcement schedules, recording assumptions.

Oct 2014 – Dec 2014

Site Engineer (Internship), Harsh Construction

- Interned on a building construction package and tracked daily progress, concrete quantity take-offs, QA/QC checks, and documentation, giving senior engineers accurate data for cost and programme control.
- Kept the Measurement Book MB current, recording executed quantities and supporting billing records, with **MS Excel** reports for site progress updates.
- Carried out material inspections & testing on delivery, then raised issues with supervisors & contractors to protect build quality.
- In a **30-person** site team, I supported **4** control areas and **2** key records, MB and progress reports, strengthening my grounding in construction-facing BIM delivery.

Education and Qualifications

MSc in Building Information And Modelling, Oxford Brookes University – 2024

MTech In Structural Engineering – 2019

BE (Civil) – 2016

Technical Skills

Revit | AutoCAD | BIM 360 | Power BI | Navisworks | MS Office/Excel | ETABS | Staad.Pro (Bentley Certified Course) | Tekla | Plannerly | Environment Modelling | Common Data Environment In BIM 360 | 3D Component Modelling | Concept Visualisation Using BIM | Design & Analysis - Steel Connections, Base Plates & Foundations | Dynamo Visual Scripting | Python C# BIM Automation | IFC OpenBIM Coordination | Cobie Asset Data Drops | Uniclass 2015 Classification | BIM Execution Plan Authoring | Synchro 4D Sequencing | Solibri Model Checking | Revizto Issue Management | Digital Twin Handover Workflows