

# Yash Bhamre

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## Work History

Jan 2023 – Present

Structural Design Engineer (Contract), S C Designs

- 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

- 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

- 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

- 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

- 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