

Tom Hughes

Graduate Structural Engineer

Structural engineering graduate from the University of Bath with a 6-month summer placement at a multidisciplinary consultancy. Assisted with structural calculations and drawings for **8 residential and commercial projects** with a combined construction value of over **£12 million**. Proficient in Tekla Structural Designer, AutoCAD, and hand calculations to Eurocodes, with a **First Class Honours (74% average)** in Civil and Structural Engineering.

SKILLS

Structural Analysis & Design • Tekla Structural Designer • AutoCAD • Eurocode Design (EC2, EC3, EC5) • Steel, Concrete & Timber Design • Hand Calculations • Revit (BIM Level 2) • Foundation Design • Site Visit Reporting • Technical Report Writing • Microsoft Excel • Problem Solving

LANGUAGES

English - Native

EXPERIENCE

Graduate Structural Engineer (Summer Placement), Buro Happold, Bath Jun 2025 – Nov 2025
Completed a 6-month placement within the structures team at Buro Happold's Bath studio.

- Produced structural calculations for **8 projects** including steel frame design, RC slab design, and timber roof structures
- Created **20+ general arrangement and detail drawings** in AutoCAD for submission to contractors and planning authorities
- Ran **15 structural analysis models** in Tekla Structural Designer and checked results against hand calculations
- Attended **6 site visits** during construction phases, recording observations and producing site visit reports

Labourer (Summer Work), Midas Group, Bristol Jun 2024 – Aug 2024
Worked as a general construction labourer on a new-build residential development during the summer break.

- Assisted with groundworks, concreting, and steelwork erection across a **40-unit housing development**
- Completed CSCS card training and worked safely on site for **12 weeks**

EDUCATION

MEng (Hons) Civil and Structural Engineering in Structural Engineering, University of Bath, Bath Sep 2021 – Jul 2025
Graduated with First Class Honours (**74% average**). Programme accredited by IStructE and ICE for CEng.

- Final year project on the structural performance of cross-laminated timber in multi-storey buildings, graded **80%**
- Winner of the **IStructE Student Prize** for best structural design project in the 2025 cohort

CERTIFICATIONS

IStructE Graduate Member, Institution of Structural Engineers Aug 2025 – Aug 2025

CSCS Green Card (Labourer), Construction Skills Certification Scheme May 2024 – May 2024

PROJECTS

CLT Multi-Storey Building Study - Final Year Project Sep 2024 – Apr 2025
Investigated the structural performance of cross-laminated timber (CLT) panels for use in 8-storey residential buildings.

- Modelled **3 structural configurations** in ETABS and compared load capacity, deflection, and cost against steel and concrete alternatives
- Demonstrated CLT could achieve **22% lower embodied carbon** with equivalent structural performance

EXTRA CURRICULAR ACTIVITY

Vice President - University of Bath Structural Engineering Society Sep 2024 – Jun 2025
Organised **5 industry talks** and a site visit to the HS2 Curzon Street station for **35 students**.