

Tom Curtlin

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Personal Profile

Structural engineer working for a global consultancy firm, with a Masters degree in Architectural Engineering from Cardiff University. I particularly enjoy the construction stages of projects and working with all relevant parties to ensure that buildings are constructed to a high quality, on budget and in line with the clients wishes. I have a desire to be closer to the project construction and move away from the office based design aspect of my job.

Education

Cardiff University

2005 - 2010

MEng (Hons) Architectural Engineering (Class 2.1) (4 years) accredited by ICE and IStructE.

Sir Thomas Picton Secondary School

1998 - 2005

3 'A' Levels: Mathematics (A), Art & Design (A), Physics (B).

9 GCSE's: Grades A*-C including English, Maths and Science

Engineering/Construction Experience

AECOM

2012 - present

Structures

Learning Resources Centre, Luton, University of Bedfordshire - £21m 7 storey RC concrete frame academic building, with exposed coffered slabs, hung mezzanine, and single storey basement. Undertook client-side structural site inspection role. Responsible for fortnightly inspection of the quality of construction, reporting, approving close out of actions.

Kimbolton School – 2 storey RC frame teaching block. – Undertook client-side structural site inspection role. Carried out inspections of the structure throughout the construction stage, and issued reports on defects and snags to the contractor.

New Academic Building, Polhill Campus, University of Bedfordshire - £10m 3 storey RC concrete frame academic building with post-tension flat slab. Undertook design coordination and detailed design from RIBA Stage E onwards, and dealt with site queries through to completion. Attended fortnightly DTM's on site, making site inspections alongside meetings.

North Range of Buildings, Cambridge, University of Cambridge - £25m 4 storey RC frame new build with single storey basement, and refurbishment of existing buildings. Reviewed pre-cast cladding requirements, and connections with precast structural elements. Worked with the project engineer to develop the structural design up to RIBA Stage 4. Gained experience in the complications associated with demolition of an existing building, and the design and sequencing of a new basement construction with a significant number of varying boundary conditions.

New Science Building, Hatfield, University of Hertfordshire - £40m 4 storey RC frame with mix of RC flat and post-tension flat slab elements. Undertook the detailed design and production of construction information, and dealing with site queries through to completion.

Oasis Academy Extension, Enfield, Oasis Academy - £2m steel frame with pre-cast concrete floor for additional storey to teaching wing. Produced the structural design from concept through to fabrication, and dealt with site queries during opening up works and demolition of existing roof structures.

Network Rail Footbridge Assessment Programme – PTS and PASMA trained to undertake footbridge surveys and inspections to produce structural assessment and defects reports. Undertaken a number of night time inspections whilst taking possession of the line. Also responsible for producing Task Briefing Sheets and associated Health and Safety documents in line with Network Rail protocols.

Heron Hall Academy – Undertook composite steel frame design with precast concrete floor planks of 3 storey teaching block with an approximate project value of £16m.

Redevelopment of Student Facilities, Loughton Campus, University of Essex – Project engineer role for £1.3m redevelopment of student facilities to include new 2 storey steel frame barn building with precast concrete ground and first floors, housing new

library, study space and theatre equipment storage, as well as a single storey extension to existing refectory and associated link building between the two.

Sustainable Development Group

Gained experience in providing low/zero carbon building strategy and technology advice for domestic and non-domestic buildings. Responsible for carrying out SAP 2009 domestic energy assessments, BREEAM, Code for Sustainable Homes Assessor, waste strategies, and Energy and Sustainability Statements.

North West Cambridge Development – provided sustainability advice to design teams, and guidance on BREEAM and Code for Sustainable Homes assessments. Produced Sustainability and Energy Statements for Planning Applications for 8 Lots of residential, commercial and mixed-use developments, and developed the UK's largest underground waste strategy.

Residential Developments – provided sustainability advice to design teams during design phase, completing Code for Sustainable Homes pre-assessments and carrying out SAP 2009 domestic energy modelling from concept through to project completion on a number of London based residential projects, including Blackness Lane, Arora, Tottenham Town Hall, Lollard Street, and Q4 Development.

Sustainable Energy Authority of Ireland (SEAI) – Carried out redesign of and Microsoft Excel based energy forecasting tool for SEAI to assist in the development of the Irish Governments Energy Strategy.

Rosemonts & Co. Set Design, Sydney, Australia

Jan 2011 – Oct 2011

Gained experience of roles at all levels of a design and construction company. Worked initially as a labourer, very quickly progressed to carpenter and onto CAD and CAM technician, and later as production assistant supervising all aspects of projects whilst participating in multiple phases of the design and construction.

Spent time on high-pressure construction sites where many conflicting interests of sub-contractors exist. Learnt that minimizing time on site helps reduce conflict as well as limiting the financial implications. I participated in the structuring of projects, considering construction, logistical and financial limitations. I allocated resources in order to improve the efficiency of a project and the quality of the final product. Projects ranged in value from A\$5000, to A\$7m. These varied in nature, from large-scale museum fit-outs to high-end staging props for musicians, and set pieces for film and theatre.

W.A.Spees Architects, Pembrokeshire

Summer 2009

Initially voluntary work and later progressing to paid work. Tasks included general administration, producing high quality AutoCAD drawings and assisting in developing and implementing a new AutoCAD layering system. The feasibility of a number of thermal insulation products and technologies for a locally run hotel were also calculated. The various projects dealt with developed my technical skills, but also questioning and listening skills.

Pembrokeshire Agricultural Society, Pembrokeshire

Summer 2005 - 2008

Extensive experience of working on site has been gained, often in poor conditions and for very long hours, and also working with individuals from many different fields with very different skill sets and personalities to complete effectively a given task. Experience was gained in working on short-term, temporary fixes, and on long-term drainage problems and in coordinating and prioritizing certain tasks. I learnt that often things do not go to plan and the importance of remaining calm and adaptable whilst under pressure.

Interests

Sports - Enjoy most mainstream sports but am especially passionate about football and motorsports. Currently play football competitively and participate in tennis, squash, golf, and distance running for enjoyment. During university I was a member of Cardiff University Motorsports as well the Mountaineering Club.

Health & Fitness – As an extension of my enjoyment of sports I also enjoy taking time to work on my physical fitness. I enjoy participating in outdoor activities including running, mountain biking, hiking and rock climbing. One of my many ambitions is to compete in a triathlon in the near future.

Arts – Possess an interest in all things creative, especially art & design and continually look to broaden my knowledge of classical and contemporary art and work on my own ideas, whether this be drawing, painting or photography.

References

Available on request.