



DAVID McLAUGHLAN

CHARTERED ENGINEER

BEng (Hons) CEng MIStructE

PERSONAL PROFILE:

With over 30 years' experience of working in the construction industry as a Structural Engineer, David has built up experience of all aspects of the profession ranging from small domestic alterations to award winning, multi-million pound projects. Working closely with Clients, Architects, , Service Engineers, Surveyors, Contractors, Fabricators and Suppliers, an extensive knowledge of the requirements for integrated design and construction has been accumulated from concept stage to completion.

Highlights include being responsible for the design of the roof and mast structure for the Millennium Stadium, Cardiff(1999) and the Estádio Algarve, Portugal 2004. Significant other projects include The Avenues Phase 3, Kuwait 2012, Burj Al Arab, Dubai 1999, Waterloo International 1994,

KEY SKILLS:

- Experience with all traditional construction materials, including steel, reinforced/pre-stressed concrete, timber, masonry as well as glass, stainless steel, aluminium, ETFE and other lightweight, composite claddings.
- Proven ability to deliver on time and within budget, large, technically demanding projects.
- Able to bring extensive knowledge and experience to structural inspections of buildings, and forensic investigations into defects and failures including reports for insurance claims.
- Flexible approach to working, with the ability to work independently, part of a team, or heading a team.
- Confident communicator with ability to undertake ambassadorial roles to both develop and strengthen external reputations and relationships.
- Extensive work and travel experience within the UK, Europe and the Middle East.

CONTACT DETAILS:

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SMITHERS
PURSLOW

ENGINEERING ■ SURVEYING ■ ARCHITECTURE

Independent Professional Expertise

EMPLOYMENT HISTORY AND EXPERIENCE:

SMITHERS PURSLOW

2019 - present

Structural Engineer

DAVID DEXTER ASSOCIATES

2006 - 2016

Associate

FREELANCE CONSULTANT

2002 - 2006

WS ATKINS - LONDON

2000 - 2002

Associate

WS ATKINS - OXFORD

1994 - 2000

Project Manager

(YRM) ANTHONY HUNT ASSOCIATES

1988 - 1994

Project Engineer

KEY QUALIFICATIONS & ACHIEVEMENTS:

- 1988 | University of Leeds | BEng (Hons) Civil Engineering with Architecture
- 2000 | Member of the Institution of Structural Engineers | Chartered Engineer
- Nov 2000 | The Structural Engineer | "The Design and Construction of the Millennium Stadium, Cardiff" (McLaughlan/Otlet)
- Legal Experience Training Advanced Professional Award in Expert Witness Evidence (LETAPAEWE)

KEY SPECIALISMS:

- Structural Design and Detailing of Buildings, Stadia and Bridges from small domestic to large scale developments in a range of fields including commercial, sports/leisure, transport, education, health and residential/hotel up to £150m.
- Experience with all traditional construction materials, including steel, reinforced/pre-stressed concrete, timber and masonry.
- Extensive design and detailing experience of both traditional cladding systems/climate walls from framed and planar glass, curtain walls in stainless steel and aluminium, to modern, lightweight composite systems including PVC/PTFE tensile membrane structures and ETFE cushion panels.
- Development of complex method statements for site works erection method statements, risk assessment, health and safety issues and operation/maintenance manuals.
- Structural inspections of buildings, and forensic investigations into defects and failures including reports for insurance claims.
- Insurance Claims and Recoveries, fire, flood impact, explosion etc
- Subsidence and Ground Movement.
- Production and auditing of complex 3D structural analysis, including architectural steelwork and lightweight cladding solutions utilising software such as STAAD.pro analysis software and CAD packages.
- Familiar with current British Standards, Eurocodes, AISCE, Building Regulations.