

Introduction

I am an Australian freelance civil and structural engineer with extensive experience with both Consultants and Contractors. Rather than specialising in any one particular aspect of design or construction, I have a broad experience including Project Management, Building Design and Technical Support during construction (both new-build and renovation/repair projects). As I am self-employed, I am available for either short or long-term assignments and have the flexibility to work from home, office or site.

I believe my particular strengths lie in **Project Management**; coordinating multidiscipline designers to take a project from tender through detailed design to as-built, **Communication**; able to communicate well with other construction professionals and clients both in writing and particularly in meetings, **Problem Solving**; able to quickly narrow down the optimum solution when confronted with either design or construction issues, and **Conflict Resolution**; able to analyse documentation and extract relevant information to establish responsibility, cause, effect and damage to assist in the defence of claims and in mediation. From dealing with claims involving **Tenders**, I have an understanding of how they can be developed in order to provide an optimal solution and minimise the possibility of future costly litigation.

Résumé

Profile



Extensive construction industry experience in the fields of civil and structural engineering, covering both building structures and, more recently, bridge projects.

Work experience in Australia, England and Spain.

Experience

- Broad range of experience in design, site supervision, independent checking and project management.
- Structural design of building projects in reinforced concrete, structural steelwork, timber, and masonry.
- Civil Engineering design of paved areas and drainage in housing developments.
- Quantities estimating, structural surveys and appraisals of existing buildings, reports, method statements, specifications, operation and maintenance manuals, cost estimation, feasibility study.
- Contractual, technical and financial evaluation of construction claims.

Profession

Structural/Civil Engineer

Nationality | Languages

Australian | Fluent in Spanish

Qualifications

BE (Civil) University of Melbourne.

Online Computer Science Courses Harvard University

- CS50 Web: *Web Programming with Python and JavaScript*;
- CS50 AI: *Introduction to Artificial Intelligence with Python*;
- CS50x: *Introduction to Computer Science*.

Professional Associations

Corporate Member Institution of Structural Engineers (MIStructE)

Graduate Member Institution of Civil Engineers (GMICE)

Experience 2006 to present

Evaluation of contract claims

Assessment of the contractual, technical and financial position of construction claims brought against Eptisa including evaluation of experts' reports and insurance coverage. Attendance at mediation to assist in the negotiated resolution of disputes.

Mersey Gateway Project

Deputy Project Manager Landside Structures. Project manager for Eptisa whose design responsibilities covered all retaining walls, drainage for the entire project including the Main Bridge, geotechnical design and sub-structure design for the Astmoor & Bridgewater Viaduct. Responsible for the supervision of production and submission of drawings and reports, including quality control. Attended weekly design coordination meetings as well as monthly DJV Board meetings.

N25 New Ross Bypass

Project Manager CAT III check including Barrow Crossing. Responsible for overseeing the independent checking and acceptance of structural drawings and geotechnical reports as well as attending client coordination meetings.

New Europe Bridge

Management of production of Working Drawings and also Design Site Representative for the New Europe Bridge (Vidin–Calafat, Bulgaria). Responsible for developing the design general arrangement drawings for the entire project into working drawings. These included the river crossing and approach as well as the railway bridge and the drainage design for both structures. Design Site Representative and attended monthly site design coordination meetings between designers, client and checking engineers.

Employment history

Since Sep-13	Eptisa Servicios de Ingeniería, SL. Project Manager CAT III Check N25 New Ross Bypass . Contact value €230m. Deputy Project Manager Landside Structures, Mersey Gateway Project . Contact value £550m.
Jun 08- Jun 13	FCC Construcción SA. Responsible for producing the Working Drawings and Design Site Representative for the New Europe Bridge (Vidin-Calafat, Bulgaria). Contract value €235m.
Apr-06- Jun 08	Dragados SA. Quality Control Technician Torre Cepsa. Contract value €82m.
May 04- Nov 05	Oproler Madrid SA. Site manager refurbishment of 19,000m ² of office space in two buildings for Ericsson Spain. Contract value €1.7m
Sep 02- Feb 04	Ross & Partners, London /Fitzpatrick Contractors, London. Resident Engineer Gibraltar General Hospital. Contract value £30m.
Feb 00- Jul 02	Pondio Ingenieros, Madrid. Design engineer.
Sep 97- Aug 99	Ross & Partners, London. Design Engineer.
May 91- Sep 97	John E. Foster & Partners, London. Design Engineer/Resident Engineer.
Aug 90- Feb 91	Ross & Partners, London. Design Engineer.
Mar 90- Aug 90	Delta Demolitions, Melbourne. Site foreman.
Dec 88- Mar 90	P & S Kubale Ltd, Melbourne. Site foreman.
Jan 88- Dec 88	Zafiris Constructions, Melbourne. Cost estimator.
May 87- Dec 87	Ross & Partners, London. Design Engineer.
Jun 86- Mar 87	Reviresco Contracting, London. Site leading hand.
Dec 85- May 86	P & S Kubale Ltd, Melbourne. Site leading hand.
May 85- Nov 85	Ross & Partners, London. Design Engineer.
Sep 83- Nov 84	P. Berger & Associates, Melbourne. Design Engineer.
Jan 83-Aug 83	Tech Builders, Melbourne. Site leading hand.

Experience

Eptisa

Mersey Gateway Project: Deputy Project Manager Landside Structures

N25 New Ross Bypass: Project Manager CAT III check.



Mersey Gateway Project: Main Bridge



Mersey Gateway Project: Astmoor & Bridgewater Viaduct



N25 New Ross Bypass: Barrow Crossing

FCC CONSTRUCCIÓN

In charge of production of Working Drawings and also Design Site Representative for the New Europe Bridge (Vidin–Calafat Bridge, Bulgaria). Contract value 235M€.



New Europe Bridge

Responsible for developing the Definitive Design drawings into Working Drawings for construction, for all the bridge structural elements: Piling, Pile Caps and Vessel Impact Protection, Piers, Deck, Abutments, etc. Drainage, M&E, Bank Stabilization and Scour Protection.

Resident Engineer and Design Site Representative at the monthly site progress meetings.

DRAGADOS SA

Quality Control Technician on 250m Torre Cepsa. Contract value €82M.



Torre Cepsa

Responsible for on-site quality control checking of reception of materials and execution of reinforced and prestressed concrete structures and concrete-steel composite slabs.

OPROLER MADRID SA

Site Manager on refurbishment of 19,000m² of office space in two buildings for Ericsson Spain. Contract value €1.7m.



Ericsson Mendez Alvaro



Ericsson Via de Los Poblados

ROSS AND PARTNERS, LONDON

Resident Engineer Gibraltar General Hospital (Gibraltar). Contract value £30M.



Gibraltar General Hospital

Project involved modifying an existing concrete load bearing wall office complex; drilling and cutting new doors and access for services, also installing new steel framed roof structures and elevated steel walkways between existing buildings.

Design Engineer.

Produced design calculations for a vast array of projects in steel, in-situ and precast concrete, timber and load bearing masonry. New build and renovations. Residential, commercial, hospitals, laboratories, and offices.

Preparation of structural surveys and appraisals of existing buildings, reports etc.

Projects included:

Hospital extension, Bury St Edmunds	Client: Nuffield Hospitals
Renovation of over 30no. premises Carnaby Estate, Soho, London	Client: Shaftesbury PLC
Feasibility study Technical Building C, Heathrow Airport	Client: British Airways
Steelwork framed laboratory, Dartford	Client: GlaxoWellcome
Steelwork framed laboratory, Ware	Client: GlaxoWellcome
Modifications Headquarters Barclays Bank, Poole	Client: Barclays Bank
BP Headquarters, Hemel Hempstead	Client: BP

PONDIO INGENIEROS, MADRID**Design Engineer.**

Produced design calculations in reinforced concrete for various types of projects including:

Santiago-Ourense Motorway	Client: ICEASA
False tunnel Ciudad de la Cultura, Galicia	Architect: Eisenman Architects
Endesa headquaters	Client: Prointec
Tenerife Airport North Terminal	Client: Ferrodarias UTE
Parador Lerma	Client: Constructora Hispanica
Sporting complex C.A.R.D Sierra Nevada	Architect: D. Benito Barbadillo de la Fuente
Industrial showrooms, San Sebastián de los Reyes	Architect: D. Manuel Izquierdo
A.V.E train station Zaragoza	Client: D. Carlos Ferrater
Repsol Technology Centre, Mostoles	Client: Proes y Typsa
Apartment block, San Sebastian de los Reyes	Architect: D. Manuel Izquierdo
Health Centre Benitez, Ceuta	Architect: D. Gonzalo Cabanillas
Office complex, Las Rozas	Client: Alatec
Industrial warehouse, Villaverde	Client: FCC
Offices and retail, San Sebastian de los Reyes	Client: Inbisa Madrid SA
Multi-storey apartments, Madrid	Architect: D. Pablo Aldaz
Sporting complex, Salamanca	Client: Alatec-Proes
Fire station, Aranda de Duero (Burgos)	Architect: D. Gonzalo Cabanillas
Multi-storey apartments, Illescas (Toledo)	Architect: D. Gonzalo Cabanillas
Underground multi-storey carpark, Santiago de Compostela	Client: ACS
Multi-storey apartments, Cordoba	Architect: Rafael de la Hoz



Endesa Headquarters, Madrid

JOHN E. FOSTER AND PARTNERS, LONDON

Design Engineer

Experience similar to Ross and Partners: Produced design calculations for a vast array of projects in steel, in-situ and precast concrete, timber and load bearing masonry. New build and renovations. Residential, commercial and office.

Preparation of structural surveys and appraisals of existing buildings, reports etc.

Projects included:

3no. Multi-storey apartments, London	Client: Albany Homes
Multi-storey apartments, Kensington, London	Client: LCR Developments
Harrow Weald Nursing Home	Client: Bell & Webster
Refurbishment 10 storey concrete frame, City Road, London	Client: Crocker Group
Refurbishment Canada Wharf, Rotherhithe, London	Client: Crocker Group



Canada Wharf

Resident Engineer Roebuck House, Victoria

Extensive repairs and replacement of concrete façade to 16 storey concrete framed residential block in central London.



Roebuck House