

Curriculum Vitae

Personal Details

Name	Nigel B Brook
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Address	Kota, India
Nationality	British
Professional Affiliations	Chartered Engineer European Engineer Member, Institution of Civil Engineers
Education	B.Sc. (1st Class Hons) Civil Engineering, Plymouth Polytechnic; 1980
Other Training	Commercial Diver in accordance with the "Diving Operations at Work Regulations", 1981, Part IV, Schedule 4
Languages	English (Primary), French (Basic), Mandarin (Beginner), Korean (Beginner)
Birth Date	01 January 1954



Career Highlights

Specialisation	With over forty years of civil engineering experience, Nigel has been influential in major bridge, power station and marine projects in Australia, Bangladesh, India, Malaysia, the Middle East, Pakistan, South Korea, Taiwan, Vietnam and the U.K. His experience ranges from project management to detailed design and construction of major civil engineering and multi disciplinary projects. Nigel's speciality is project management, technical and construction support and supervision, for bridges and ancillary structures to major road and rail projects.
Major Highway and Rail Projects	<ul style="list-style-type: none">• Kota Cable Stayed Bridge, India - The Employer's Representative• Doha Expressway Programme, Qatar - Area Project Controls Manager• Incheon Cable Stayed Bridge - Engineering Manager• Taiwan High Speed Rail - Design Coordinator• Padma Bridge - Feasibility Design and Study• Windsor Road Upgrade - Design Management• Sunshine Motorway - Design Management• Mitcham Frankston Motorway - Tender Design• Lahore to Islamabad Motorway - Bridge Assessment• Lahore Ring Road - Feasibility Study• M66 Manchester Outer Ring Road - Design• Manchester City Link and White City Interchange - Design• A6(M) Stockport North South Bypass - Design• M62 Motorway Widening - Design• Mancunian Way Flyover - Bridge Assessment
Major Power Station Projects	<ul style="list-style-type: none">• Mong Duong 1; 2 x 500MW Coal Fired Station, Vietnam• Vung Ang 1; 2 x 600MW Coal Fired Station, Vietnam• Ho-Ping 2 x 650MW Coal Fired Station, Taiwan• Manjung 3 x 700MW Coal Fired Station, Malaysia• West Burton 'B' 1800MW Coal Fired Station• Heysham 2 625MW AGR Nuclear Power Station• Killingholme 1800MW Coal Fired Station• Hams Hall 1800MW Coal Fired Station• Pulrose 80MW Diesel Alternator Power Station• Kilroot 520MW Coal / Oil Fired Power Station

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Career History

Louis Berger Group
(2015 - Date)

The Engineer / Employers Representative

Based on the Kota Cable Stayed Bridge project site as the nominated Employer's Representative, in accordance with the modified FIDIC Conditions of Contract for EPC/Turnkey Projects, and responsible for finalising the design methodology, technical specifications, proof checking of the design/drawings submitted by the contractor, and ensuring execution of the works on site comply with the project specification and standards. Overall responsibility for Louis Berger's operations at site including guiding, supervising, coordinating and monitoring the work of the team experts whilst interacting with the Employer's Project Director (NHAI) as well as with the corporate office. An overall project length of 1350m comprising 300m approach road, 400m access bridge and 700m post tensioned reinforced concrete cable stayed bridge with 350m clear centre span over the Chambal River. Total project cost US\$60M.

Kellogg Brown &
Root
2014 - 2015

Area Project Controls Design Manager

Responsible for the design and programme management for the Doha Expressway Programme south area in Qatar. Totalling over ten live projects at various stages of design and construction; and comprising over one hundred kilometres of multi-lane carriageways and service roads, thirty five grade separated junctions and interchanges, and five kilometres of elevated highway. Total works currently estimated over US\$ 8.0 billion.

Poyry Energy
Consultants
2010 to 2014

Lead Civil and Structural Engineer

Owner's Engineer responsible for the design review, technical support and construction supervision of civil works for the US\$1.5 billion 2 x 500MW coal fired Mong Duong power station project in Quang Ninh province, Vietnam.

Lead Civil Engineer / Deputy Project Manager

Based on the construction site as the Owner's Engineer and responsible for the design review and construction supervision of civil works for the US\$1.7 billion 2 x 600MW coal fired power station project on the coast of Vung Ang in Vietnam.

AMEC Project
Investments
2006 to 2010

Owner's Engineering Manager

Based on site and responsible for the management of the D&C Contractor's design, advising on construction quality and remedial works, factory and fabrication / testing inspections, alternative design and construction proposals, assessment and evaluation of claims and management of specialist advisors for the 12.35km Incheon Bridge Project including a 1480m cable-stayed bridge, 1800m balanced cantilever bridge and 8400m full span launched viaduct. Total project cost US\$1.3 billion.

FaberMaunsell
(seconded to
Maunsell Australia
Pty Ltd)
2005 to 2006

Principal Bridge Engineer

Based in the Sydney and Brisbane offices to provide project management, detailed design and technical support on various projects. These included the \$100M Windsor Road Upgrade project in Sydney, and the Gateway Bridge duplication tender in Brisbane.

Halcrow Group
2004 to 2005

Principal Bridge Engineer

Responsible for the management, preliminary design and feasibility study of the substructure to the 5.8km extradosed crossing of the Padma River for the Jamuna Bridge Authority in Bangladesh. All work was carried out in the Dhaka project office of the lead Japanese Consultant Nippon Koei. Total project cost US\$1.2 billion.

FaberMaunsell
2001 to 2004

Principal Bridge Engineer

Secondment to Maunsell Australia – Responsible for the bridge designs on various projects including the Mitcham-Frankston Freeway in Melbourne and the West Link M7 in Sydney

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Design Co-ordination Manager

Manager of the design co-ordination team, on the construction site in Taiwan, to provide project management, technical co-ordination and construction support for two adjacent contracts of the Taiwan High Speed Rail Project. Responsibilities included liaison with the local independent checking consultant and the Taiwan High Speed Rail Company in order to secure design approvals prior to construction. The works comprised approximately 50km of post tensioned reinforced concrete viaduct including two stations' approaches and four major river crossings through areas of high seismic activity.

*Allott and Lomax
Consulting
Engineers
1999 to 2001*

Civil Design Co-ordination Engineer

Ho-Ping 2 X 650MW Coal-Fired Power Station Taiwan – Based on the station construction site and responsible for co-ordinating all the civil design from local civil and architectural consultants, together with support for the civil construction by providing rapid solutions to construction related problems.

Manjung 3 X 700MW Coal-Fired Power Station Malaysia - Based in the local civil designer's office in Kuala Lumpur responsible for co-ordinating, monitoring and reviewing the design, providing technical advice together with site liaison for resolving construction related inquiries. This also required strict control of key quantities to maintain budget, and programme dates for the release of design information from the multi-disciplinary design team to the construction site.

*Auscon Consultants
International
1996 to 1999*

Engineering Department Head

Based in Oman and responsible for the successful commercial operation of the Structural and Civil Engineering Departments, winning major projects in Pakistan, Oman and throughout the Middle East. The scope of projects varied from project management, design and inspection to site supervision of private villas, shopping centres, hospitals, industrial buildings and bridges, to the Royal Stadium extension, and five star hotels: -

- Lahore To Islamabad Motorway - Bridge assessment of a 330km 6 lane motorway in Pakistan.
- Lahore Ring Road - Preliminary study of ring road and elevated expressway in Pakistan (\$460M).
- Rhobat Stadium - Extension design, comprising sheltered seating for 2000 VIP's and a Royal Box for his Majesty and entourage (£4.95M).
- Hyatt Regency Hotel - Design and on site project co-ordination of this £56.0M hotel.
- Port Services Headquarters - Structural assessment, repair proposals and co-ordination of reinforced concrete repair contract (£0.75M).
- Masirah Island Jetty - Structural inspection and repair feasibility study (up to £2.25M).
- Haima Hospital - Structural investigation including site investigation and repair assessment (£0.9M).
- Contractors' Camps - Structural design of oil contractors' accommodation and recreational facilities (£13M).

*L. G. Mouchel and
Partners Limited
1994 to 1996*

Bridge Engineer

Responsible for the design, construction supervision, and assessment of various highway structures for a number of major schemes including the M66 Manchester Outer Ring Road. These comprised miscellaneous highway structures including multi-span steel and concrete bridges with integral supports, secant piled retaining wall and signal gantries of reinforced concrete and aluminium construction.

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Allott & Lomax
Consulting
Engineers
1993 to 1994

Bridge Design Engineer

City Link And White City Interchange - Responsible for the D.Tp. Category II check on multi-span road over rail bridges mainly of composite concrete construction on piled foundations.
Bridge Assessments - Responsible for assessments of various multi-span motorway bridges constructed of post-tensioned and precast pre-stressed concrete circa 1956 to 1974.

Parkman Consulting
Engineers
1993

Bridge Design Engineer

M62 / M602 Bridge Assessments - Supervision and execution of Category II check of various bridge assessments. Form of structures included post-tensioned and pre-stressed concrete deck slabs constructed circa 1965.

L. G. Mouchel and
Partners Limited
1990 to 1993

Bridge Design Engineer

A6(M) Stockport North South Bypass Structures: - Responsible for Approval in Principle submissions, design supervision and execution of various structures to BS 5400 as amended by the appropriate BD's. These included continuous and simply supported multi-span bridges of precast pre-tensioned, in-situ post-tensioned and composite steel construction, on spread footing and in-situ concrete piled foundations.
Also responsible for the design of miscellaneous retaining wall structures include sheet piled, secant pile and conventional reinforced concrete cantilever walls supporting up to 9.0 metres of fill / original ground.

G. Maunsell and
Partners
1989 to 1990

Bridge Design Engineer

Responsible for the inspection and assessment of various bridge structures including a multi-span post-tensioned precast concrete segmental spine beam deck, and a single span steel / wrought iron road bridge over the River Dane

Allott & Lomax
Consulting
Engineers
1980 to 1989

Supervising Design Engineer (1988 to 1989)

Managing the design team responsible for the tender and detail designs of the preliminary site works, including drainage, water supplies and ancillary structures, for West Burton 'B' 1800MW coal-fired power station (£20.0M). The station extension was sited on ash fill from the first stage.

Assistant Project Engineer (1987 to 1988)

Jointly responsible for the budgetary control and co-ordination of work carried out by specialist design groups. Also responsible for feasibility reports on three potential sites for the construction of 1800MW coal fired power stations

Acting Resident Engineer (1986)

Supervising construction and quality control of the Ancillary Buildings Contract to Pulrose Power Station, comprising the workshops, stores and the cooling tower foundation (£0.5M).

Graduate Engineer (1985 to 1986)

Responsible for the design of various marine structures including an offshore fuel berth for Vasilikos Power Station, comprising a 200 metre long composite concrete jetty head on large diameter piles, with 4 number mooring dolphins, and a 1300 metre long shore arm (£25M).

Deputy Resident Engineer - Holywell Inner Ring Road (1985)

Responsible for the supervision of construction of highway pavement, bridge and retaining wall works including a 1200mm-diameter storm drain by pipe jacking. (£0.75M).

Graduate Engineer (1984 to 1985)

Responsible for the design of various marine structures and execution of marine studies. These included the design of a sheet piled wharf and armour stone breakwater to Kilroot Power Station, and a 1000m desalination / cooling water sea outfall to Ras Laffan Desalination and Power Station.

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Graduate Engineer (1983 to 1984)

Responsible for the design, inspection and assessment of various bridges, including a two span pre-stressed composite concrete road bridge crossing the River Calder, for BNFL Sellafield (£200,000).

Assistant Resident Engineer Heysham 2 Nuclear Power Station (1982 to 1983)

Supervising the construction of the cooling water pumphouse inside a 25.0 metre deep, 76.0 metre diameter sheet piled cofferdam adjacent to Heysham Harbour. The works included the construction of the anchored foundations and slipformed bulkhead walls. (£22.0M).

Graduate Engineer (1980 to 1982)

Responsible for the design of various marine structures including a temporary barge unloading facility in Heysham Harbour for the delivery of a 1200t gas baffle, a temporary flood protection gabion / trench sheeting wall to protect the construction of the cooling water pumphouse and a Sea Wall overtopping study using a probability matrix of sea level and wave height together with model study results

Career Summary

2015 - date	Employer's Representative	Louis Berger Group
2014 - 2015	Area Design Manager	Kellogg Brown & Root
2010 - 2014	Lead Civil Engineer	Poyry Energy Consultants
2006 - 2010	Engineering Manager	AMEC Project Investments
2005 - 2006	Principal Bridge Engineer	FaberMaunsell
2004 - 2005	Principal Bridge Engineer	Halcrow Group
2001 - 2004	Principal Bridge Engineer	FaberMaunsell
1999 - 2001	Design Co-ordinator	Allott and Lomax
1996 - 1999	Engineering Head	Auscon Consultants
1994 - 1996	Bridge Engineer	L.G.Mouchel and Partners
1993	Bridge Engineer	Parkman Consulting
1990 - 1993	Bridge Engineer	L.G.Mouchel and Partners Ltd
1989 - 1990	Bridge Engineer	G.Maunsell and Partners
1980 - 1989	Graduate - Project Engineer	Allott and Lomax
1976 - 1977	Technician Engineer	RMJM and Partners
1975 - 1976	Engineering Technician	London Borough of Lewisham
1974 - 1975	Technician Engineer	Central Lancashire Dev. Corp.
1973 - 1974	Technician Engineer	Northern Developments Limited