

Curriculum Vitae
EurIng B J Burford

Name: Eur Ing BRIAN JASPER BURFORD, BSc(Civ.Eng.), CEng, MICE, MIHT
Company: (Director of:) Jaspell Services Limited
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Position Held: Director, Jaspell Services Limited, Engineering and Language Consultancy
Position Held: Associate, Peter Holliday & Associates, Structural and Civil Engineering Consultants
Posts Sought: Project Management, Design and Supervision for:-
Highway Planning and Design; Transportation Infrastructure; Riverine Construction; Public Utilities; Multilingual Public Presentation of Projects
Terms Desired: Contract or Consultancy, preferably part-time (3 or 4 days/week), but short full time considered in North East Essex or South Suffolk. Short assignments may be considered in London, the rest of East Anglia or Overseas.
Nationality: British
Year of Birth: 1946
Academic and Professional Qualifications:
Bachelor of Science Degree Honours (BSc Hons), (City University)
Chartered Engineer
Member of the Institution of Civil Engineers (MICE)
Member of the Institution of Highways and Transportation (MIHT)
European Engineer (Eur Ing.)
School, College: 3 A Level GCEs, 12 O Level GCEs
Driving Licence: Yes
Linguistic Abilities:
I give public talks in: English, Bengali, French, Hindi and Urdu.
GCE passes include A-level: French, German.
I read and converse in: Nepali
I read and speak some: Spanish, Italian, Chinese Mandarin
I read (slowly): Arabic, Gujarati, Punjabi.
Operating as a small business, JASPELL, I design and market multilingual word processing software for the above languages plus Japanese, Vietnamese, Chinese Mandarin Pinyin, and European languages. I also provide a translation service for some of these languages, especially Bengali, and typing service for them all.

Computer Skills:

AutoCAD 2006	Design, draw, and output
AutoCAD Lite	Design, draw, and output
MOSS (non-interactive)	Design, run, and output
ARCADY, PICADY	Design, run, interpret, report
COBA, TAMS	Design, run, interpret, report
Visual Basic 6	Design and write programmes
Fontographer	Font conception and design
Frontpage	Website design
Word processors, Graphics	Word, WordPerfect, Jaspell Jaldi
Spreadsheets	Excel
Reporting	Production of complete report
Touch typing	Many languages (35 wpm English)
Platforms	Windows 3.1, NT, 95, 98, ME, XP
Hardware	Basic maintenance and upgrades

Key Experience:

- My civil engineering experience is mainly associated with highways and transportation. It has included local government development control and highway adoptions, as well as all stages of projects from outline concepts, surveys, assessments and presentations, through manual or computer aided detail design, contract documentation and management of construction. I have also supervised major marine works in the U.K. and Asia.
- Currently I operate Jaspell Services Limited. As an employee/locum thereof I do short-term contracts mainly on civil engineering design office assignments for large consultancy firms or working in local government highway, traffic, development control, and highway adoption departments. Generally, these services are arranged through agencies.
- My 32 years in civil engineering have ranged up to project management design and control including working with Government officials and the public in UK and Bangladesh. I have provided civil engineering instruction, training and translations in foreign languages.
- In the 1990s major projects for which I was responsible for design include the Jamuna Multipurpose Bridge approach road and bridge end complex infrastructure design; Paksey Bridge Project highway design team leader in Bangladesh; Merthyr-Tydfil A470 Pentrebach to Cefn Coed design and project management.
- In the 1980s and 1970s I was a supervisor of construction of the East-West Interconnector on the River Jamuna in Bangladesh and of the Thames Barrier in London.

Brief Summary of Work History:

April 1999 on: Director and locum of Jaspell Services Limited (civil engineering and language consultancy incorporated on 1st April, 1999).
Current contract: Principal Engineer, Mouchel Parkman at Chelmsford on capital projects - major highway schemes.

Recent contracts as Highway Engineer: short-term contracts on highway design, contract administration, traffic engineering, highway adoption, and development control. These were with MLM at Ipswich, Colchester Borough Council, Ipswich Borough Council, Faber Maunsell at Witham, WS Atkins at Chelmsford, and PB Kennedy & Donkin Ltd at Hatfield, England.

- 1988 to 1997: Rendel Palmer & Tritton (RPT) Senior Highway Engineer and Managing Engineer:-
Highway Design Team Leader to tender stage on Paksey Bridge and approach roads, Bangladesh.
Project Manager in London Design Office on A470 Pentrebach to Cefn Coed Improvement, Wales for preliminary and detail trunk road design, assessment, exhibition, topographical survey, ground investigation, reports, documentation and administration.
Roads Engineer in Bangladesh on Jamuna Bridge Project for multipurpose feasibility study and detail design to tender documentation stage.
- 1983 to 1987: I rose to Highway Engineer in RPT's UK Design Office on design of road and bridge works, services and contract documentation for UK projects.
- 1980 to 1983: Assistant Engineer's Representative in Bangladesh, on supervision of construction of Jamuna River Crossing; 100m deep caisson foundations for pylons.
- 1972 to 1980: RPT, Engineer in Design Office for roads and bridges and airport works.
1977 RPT, Site Engineer with E.R's staff at Thames Barrier, London
- 1965 to 1972: British Diplomatic Service with 3 years in Calcutta Deputy High Commission.

Detailed Record of Experience:

- April 1999 on: Director and locum, Jaspell Services Limited on contracts with other consultancy firms.

Contract with Mouchel Parkman at Chelmsford:
Principal Engineer on capital projects - major highway schemes including taking A13/A130 through Planning Application stage.

Contract with MLM at Ipswich:
September 2005 - November 2005, design using AutoCAD 2006 and UKDMRB Volume 6 for Wellingborough WEAST including roundabouts and other junctions for Departures approvals and Road Safety Audit Stage One clearance. Feasibility report on site services and drainage proposals, Campbell Road Pit Development, Gravesend.

Contracts with Colchester Borough Council at Colchester:
November 2004 - March 2005 and August 2003 - May 2004, part-time (3 to 4 days per week) Engineer in the team on highway adoptions under the Highways Act for developments in the borough.

Contract with Ipswich Borough Council at Ipswich:

June 2002 - October 2003, part-time Traffic Engineer resolving local issues in traffic and infrastructure, including traffic measures, Orders preparation, AutoCad 2000 and SignPlot.

May 2003 - October 2003, concurrently with the above role, part-time highways officer for Development Control on the Council's partnership development project at Ravenswood, Ipswich, a huge residential redevelopment of the former airport site. This role requires devising innovative and progressive schemes including Home Zones.

Contract with Faber Maunsell at Witham:

September 2000 - February 2003 (part-time from June 2002), contract documents for A2/M2 Widening; tender exchange, appraisal process, design phase certification for D & B A11 Roudham to Attleborough Improvement; Scotney Castle A21 junction layout; Celbridge (Ireland) design changes to contract documents; A2/M2 Ecological Management of Impton Wood, managing preparation of tender documentation and oversight of contract, N9 (Ireland) reporting on compliance with Standards.

Contract with WS Atkins at Chelmsford. Senior Project Engineer:

June 2000, A2 West - M25 to M2 Cycle Facilities:

Detailed survey and design of 12 km of cycle route; tender documents of for Highways Agency Area 4.

Contract with FaberMaunsell at Witham:

May 2000, conversion of UKDMRB Volume 7 for Government of Ireland.

Contract with WS Atkins at Chelmsford, Senior Project Engineer:

July 1999, Harlow Express Bus Corridor:

After Feasibility Stage rapid progress through detail design and tender documentation stages on into support during construction stage.

October to March 2000, studies and reports on various small infrastructure and service projects, roadside facilities and cycle routes for Kent.

Contract with PB Kennedy & Donkin Ltd at Hatfield.

M4 Junction 6 Signalisation Scheme:

April 1999, scheme for reconstruction, maintenance works and widening of junction pavement; installation of traffic signals and cameras. Responsible for audit of tender documentation. Assisted in revision of text and drawings ready for issue to tenderers.

1983 to 1997: Highpoint Rendel: Senior Engineer (to 1988) then Managing Engineer (to 1997):-

Project Manager, A470 Pentrebach to Cefn Coed for Welsh Office:-

Responsible for the design of 8 km of highway with various alternative alignments and carriageway standards, including appraisal and reporting. Stabilisation requirements for routes crossing partly worked, complex coal and iron deposits and river gorge viaducts. Study of urban activities, land use, and ecology and subsequently preliminary designs; passage through

Public Inquiry; detailed design; tender documentation. The scheme provides a bypass for heavy traffic flows to avoid the town centre. Urban conditions and numerous adjacent developments and multi construction contracts required extensive liaison, design and planning. (Tenders for construction: 1993; Scheme Opened 1996).

I used Highway Link Design, MOSS, AUTOCAD, COBA, ARCADY, PICADY. I prepared the Technical Appraisal Report, public consultation exhibition and report; Scheme Assessment Report; topographical survey and ground investigation contract documentation and administration. Public Inquiry preparation and management. Tender design and documentation.

Jamuna Multipurpose Bridge Approaches (Bangladesh):-

40km of approach roads, bridge layout and township facilities serving multipurpose crossing of Jamuna River so as to unite area of agricultural surplus in the north west of Bangladesh to the commercial centre of Dhaka and the port of Chittagong. Responsible for approach roads location, preliminary design, costing and detail design of 40 km of single carriageway with provision for future dualling. Embankments formed with local borrow and material dredged from main bridge river training works. Interfacing with the road alignments in bridge end layouts required me to inter-relate design aspects of main bridge, approach viaducts, roundabouts, river training, land reclamation, drainage, gas, power, metre and broad gauge, rail layout, tolls, administration, security and township development, tourism promotion, landscaping.

Day to day:- Advisor on numerous projects particularly on aspects of preliminary route identification, junction requirements and Highway Link Design Standards (DTp):-

M25 Review (DTp):- I surveyed, studied and reported on needed improvements to layout and capacity of some 30 grade separated interchanges on the heavily trafficked M25, 191km long London Orbital Motorway.

Salisbury A36 Bypass (DTp):- Numerous alternative routes for which I assisted in design and prepared appraisal and report in a draft Technical Appraisal Report.

A35 Studies (DTp):- I surveyed, studied and reported on 11 km of route identification.

Surrey Quays Infrastructure (LDDC):- Designing foul sewerage network and junction.

Ferrybank (Waterford Corpn, Eire):- I designed roads and services infrastructure, rate study, contract documentation.

Tripoli and Benghazi Rate Study (SPLAJ:- Libya):- Rate Study.

Marsh-Honiton (DTp):- I made preliminary design and costing of alternative routes and interchanges for A30/A303/A35.

Oxford Bypass (DTp):- I did preliminary design and costing of bypass alternatives and major urban interchanges.

1980 to 1983: Engineer on Site (Bangladesh) with Rendel Palmer & Tritton:-
Jamuna River Crossing: 230 kv East-West Electrical Interconnector, Aricha to Nagarbari. 11 r.c. caissons in line at 1.2 km centres. Circular caissons of

12.2.m external diameter and 103m length. The hollow well was dredged in silt and fine sand while a bentonite annulus was circulated to reduce external skin friction and enable sinking to depths of 75m to 100m. Anchor towers at each end of the crossing have foundations comprising r.c. rafts and plinths with soil embankment over.

As Assistant Engineer's Representative and Materials Engineer I was responsible for supervising setting out and construction of cofferdams, caissons' steel shoe and r.c. wall, internal dredging, sinking, bentonite lubrication, annulus grouting, core plug backfilling, setting in anchor bolts and tower base plates, prestressing of caisson top slab; excavations, embankment for anchor tower foundation; contract administration.

As Engineer's Representative I was responsible for terminating civils supervision. Final civil works, dismantling temporary works, piled cofferdams, gabion protection, removal of navigation hazards, maintenance certification, final measurement, survey records. I trained the Client's local staff in ongoing monitoring and maintenance in English and Bengali languages.

1978 to 1980: Design Office, London as Engineer on road and bridge projects, RPT:-

Dock Road, (Waterford Corpn., Eire):-

I made the detailed design of a 66m long viaduct. 6 spans with continuity at supports over concrete piled columns. Inverted 'T' beams precast and prestressed and insitu concrete over with top reinforcement made a composite slab.

A470 Taff Vale Trunk Road Stage 4, (Welsh Office):-

I supervised design and estimating for 10 km dual carriageway and 10 km of other new carriageway including 4 roundabouts in heavily populated steep-sided narrow valleys subject to mining subsidence.

I was responsible for training new entry graduates in design and office procedures.

1972-1977: Supervisory Engineer, Thames Barrier Construction Site, London, RPT:-

An adjustable barrier was constructed to prevent high Thames tides from flooding London but maintain Port of London traffic under normal river conditions, 2 abutments and 9 piers of r.c., each housing machinery for operating flood gates in between them.

At first I supervised diversion channel dredging by bucket and suction, including marine and land surveys, measurement calculation and marine borehole investigations.

Next, I supervised demolition of r.c. piled berth and back-up area, excavation of stone pitched river bank, and construction of 300m sheet

piled river wall and back-up facilities including r.c. cased pile foundations, made ground, buildings, roads, car park, drainage and services.

I was responsible for supervision of construction of elements of sheet piled steel cofferdams 75m x 15m x 28m clear depth, and strutting framework; excavations; continuous tremie concreting of 6,000m³ base plug, dewatering, monitoring piezometric behaviour below the plug, *tube à manchette* curtain grout injection; river wall piled using Frodingham 'S', Larssen 'U' and Peine double beam box piles.

I also had responsibility for supervising stages of construction of R.C. piers with high quality cut water surface finish cast, setting out to tight tolerance for fit of gates, complex machinery bolt setting, dense reinforcement; concrete pours of up to 1000m³, also thin walls and columns and slabs; fitting out of 10,000T gate sills for floating out of dry dock and sinking between piers; onshore service.

1972-1977: Assistant Engineer in Design Office for roads, bridges and airports, RPT:- My responsibilities included Falklands Airport: Design and cost estimates for upgrading runway and facilities; Eire, Dock Road and Terminus St., Waterford: Design of r.c. abutment and columns for skew bridge and embankment retaining wall, check calculations for r.c. piles, caps and deck of viaduct since constructed over the bank of the River Suir; Iran, Saveh-Boin Highway: check calculations for r.c. deck and bearings including earthquake factor for Sur Chay Bridge, 3 spans of 18m; Libya, Tripoli Urban Roads: Design of alignments, services, earthworks, fencing, markings, Arabic language traffic signs for 35 km dual carriageway with 20 interchanges; Airports for Fiji and Falklands: I designed buildings, apron layout and markings, building services, and made cost estimates.

1965 to 1972: Diplomatic Service:-
3 years in the Foreign Office in London and 3 years in Calcutta.