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DANIEL BRIDGMAN

Bachelor of Eng. (Melb.), M.I.E. (Aust), CPEng

Table of Contents

| | |
|---|----------|
| SUMMARY | 1 |
| QUALIFICATIONS | 3 |
| SOCIETIES AND INDUSTRY COMMITTEES | 3 |
| REFEREES | 4 |
| PROFESSIONAL EXPERIENCE..... | 5 |
| SUMMARY | 5 |
| DFMB PTY. LTD. | 6 |
| <i>Mar. 01 - Present</i> | 6 |
| JONES AND JONES ENGINEERING DESIGN PTY. LTD. | 7 |
| <i>Jan. 00 - Mar. 01</i> | 7 |
| <i>Jan. 98 - Jan. 00</i> | 7 |
| BARWON REGION WATER AUTHORITY | 8 |
| <i>May 96 – Dec. 98</i> | 8 |
| <i>Sept. 87 - May 96</i> | 9 |
| AUSTRALIAN PORTLAND CEMENT LIMITED..... | 10 |
| <i>Apr. 87 - Sept. 87</i> | 10 |
| <i>Dec. 85 – Apr. 87</i> | 10 |
| <i>Jul. 84 - Dec. 85</i> | 10 |
| <i>Jan. 82 - Jul. 84</i> | 10 |
| <i>Oct. 79 - Jan. 82</i> | 11 |
| DEPARTMENT OF DEFENCE | 11 |
| <i>Sept. 77 - Aug. 79</i> | 11 |

SUMMARY

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|---------------------------|--|
| Address | 3 Farrer Close Wandana Heights 3216 ph : (03) 52441831, mob: 0428441831 email: daniel.bridgman@dfmb.com.au |
| Personal | Born in Yallourn, Vic. 12/2/54 Married, wife Glenda, son Luke, daughter Laura |
| Education | Bachelor of Engineering (Electrical) University of Melbourne 1977 Member of the Institution of Engineers, Australia |
| Present Position | DFMB Pty. Ltd. Director, Senior Electrical Engineer |
| Employment History | 2001- DFmB Pty. Ltd., Director, Senior Engineer 1998-2001 Jones & Jones Engineering Design Pty. Ltd., Electrical Services Manager 1996-1998 Manager Support Services - Barwon Region Water Authority 1987-1996 Manager Plant Services - Barwon Region Water Authority 1985-1987 Senior Engineer - Instrumentation/Systems for Australian Cement Limited 1984-1985 Project Engineer for Australian Portland Cement Limited 1982-1984 Electrical Maintenance Superintendent for Australian Portland Cement Limited 1979-1982 Instrument Engineer in the Group Engineering Department of Australian Portland Cement Limited 1977-1979 Experimental Officer in the Explosives Instrumentation Group, Department of Defence |

Interests

- ◇ Committee Member, Geelong Group of the Institution of Engineers, Australia (1990)
 - ◇ Secretary, St. Cuthbert's Church Men's Group (1990, 1991)
 - ◇ Chairman, Geelong Group of the Institution of Engineers, Australia (1991)
 - ◇ Assistant Cub Scout Leader, 1st Wandana (1992/93)
 - ◇ Vice President, Wandana Heights Tennis Club Inc. (1992/93)
 - ◇ Member, Geelong Football Club (1993 -)
 - ◇ President, Wandana Heights Tennis Club Inc. (1993 - 1997)
 - ◇ Member, Tim Hill Reserve Management Committee (1992 - 1995)
 - ◇ Member, Queen's Park Golf Club
 - ◇ Member, Wandana Heights Tennis Club
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QUALIFICATIONS

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|---------------------|---|
| Primary Education | St. Therese's Primary School, Yallourn 1959 - 1965. |
| Secondary Education | St. Paul's College, Traralgon 1966 - 1971. |
| Tertiary Education | University of Melbourne, 1972 - 1976 : Bachelor of Engineering - Electrical |

SOCIETIES AND INDUSTRY COMMITTEES

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|-------------|---|
| Societies: | Member, Institution of Engineers, Australia (CPEng) |
| Committees: | Chairman, Geelong Group of the Institution of Engineers, Australia (1991) |

REFEREES

Wayne Pecar,

Project Manager,
Cement Australia

Ph. 0429-873003

Ray Kelly,

Senior Engineer,
SKM

Ph. 041734-7394

Geoff Leivers,

Managing Director,
Leicon Notley Pty Ltd

Ph. (08) 9240 6066

Kevin Rennie,

Scheme Manager,
Water Corporation

Ph. (08) 93047629

PROFESSIONAL EXPERIENCE

SUMMARY

My employment experiences to-date have given me capabilities in the following areas:

- **Project Management.** Contract preparation and analysis, scheduling, quality systems for design management and reporting.
- **Technical.** PC's including hardware, software, operating systems, networking, intranets, PLC's (Allen-Bradley, Siemens, Square D, TI), telemetry, electrical design, quotations, documentation.
- **Personnel Management.** Extensive experience in managing sizable workforces, including industrial and union issues, OH&S policies and issues, motivation, change management, performance measurement, personal appraisal systems, personal development, training and succession planning, outsourcing issues and mechanisms.
- **Business Performance.** Life cost analysis, business unit operating parameters and performance systems, computerised maintenance management systems, environmental management systems, financial reporting systems, TQM frameworks.
- **Customer Service.** Benchmarking, quality systems, customer surveys, service agreements, best practice implementation.

Systems Integrator/Distributor:

Telemetry: Kingfisher – RTUnet Pty Ltd

HMI: Citect – Citect Pty Ltd

DFMB PTY. LTD.

MAR. 01 - PRESENT

"Senior Engineer" / Director of DFmB Pty. Ltd. This position has given me experience in:

- Project and Construction Management of multi-disciplined projects.
- Water Industry Mechanical & Electrical Benchmarking.
- Designs for electrical equipment for hazardous areas.
- Fibre optic based industrial networks.
- Optimization of PLC programming and associated quality procedures.

Key activities undertaken include:

January 2007 – Present

Cement Australia: Design, Construction and Software Engineer for two main projects – Blender installation at West Footscray and PLC replacement and MCC upgrade at the Flyash Terminal Port Melbourne.. Responsible for electrical design, industrial software and site management.

April 2006 – Dec. 2006

HBH/SKM: Construction Engineer for A+C Alliance projects for the Water Corporation

The A+C Alliance consists of GHD, Water Corporation (Western Australia) and Leicon Notley Pty Ltd. Leicon Notley are responsible for the construction activities at each water treatment plant: Gwelup, Jandakot, Neerabup, Stirling, Samson, Lexia etc.. The aim of the alliance is to centralise monitoring and control activities of the plants at Leederville. As Construction Engineer I ensured the work was performed according to the designs, arranged labour and materials, managed the commissioning and completed post commissioning documentation.

2005

HBH: Design Electrical Engineer for Fairbreeze mineral sands plant – prepared electrical schematics, cable schedules block diagrams to the client's satisfaction.

Cement Australia: Electrical Design Engineer for new silo and train loading facilities at Kandos - prepared electrical schematics, cable schedules block diagrams to the client's satisfaction.

2004

Cement Australia: PLC (GE Fanuc) and HMI software (Citect) for Newcastle Depot – complete re-write of all code and commissioning.

2002 – 2004

Cement Australia: Site Construction Engineer and Electrical Design Engineer for new ship unloading facilities at Glebe Island – multi disciplined installation including under wharf drilling, 400mm diameter pipelines and HV supplies, included PLC (GE Fanuc) and Citect programming.

Cement Australia: Site Construction Engineer and Electrical Design Engineer for two new 300T bins , truck loading facilities and 80T weighbridge at Glebe Island, included PLC (GE Fanuc) and Citect programming.

2001

Cement Australia: Complete re-write of all PLC code at Kandos cement plant (fourteen PLCs TI505).

UMS: E&M Benchmarking of the E&M services of the Australian Water Industry.

JONES AND JONES ENGINEERING DESIGN PTY. LTD.

Major work involvement included the following industries:

Water Industry:

Barwon Water Telemetry Refurbishment (\$M2+), responsible for quality system, OH&S management, project scheduling, installation, RTU programming, RTU commissioning, CAD drawings, technician training.

Coliban Water Automation (\$K150+), responsible for installation, equipment supply, electrical design, quality system, OH&S management, CAD drawings.

Western Water Centrifuge Control (\$K20), responsible for electrical design, installation, commissioning, CAD drawings.

Aluminium Industry:

BSL BACD Conveying System (\$M4.5+), responsible for electrical design, installation, commissioning, training, CAD drawings, O&M Manual.

Materials Handling:

Toll GeelongPort Shed 1 Storage and Conveying System (\$M7+), responsible for electrical design, commissioning, training, CAD drawings, O&M Manual.

JAN. 00 - MAR. 01

"Electrical Services Manager". This position was responsible for the management of all electrical activities within Jones & Jones including:

- marketing
- quotations
- project management
- resource management
- reporting
- technical standards
- contractor management

This position supervises a direct electrical workforce of four engineers and technicians as well as a variable workforce including top-up engineering resources and electrical contractors. The position relies heavily on customer liaison and customer satisfaction. Projects typically have an electrical content of 10-15% of the turn key contract amount, with contracts to date being up to \$M4.5.

JAN. 98 - JAN. 00

"Senior Electrical Engineer". This position was responsible for the marketing, quotation, performance and management of electrical projects based at the Newport office.

BARWON REGION WATER AUTHORITY

MAY 96 – DEC. 98

- " Manager Support Services". This position was responsible for :
 - ◇ Electrical & Mechanical Maintenance
 - ◇ Building Management
 - ◇ Building Maintenance
 - ◇ Fleet & Plant Management & Maintenance
 - ◇ Stores
 - ◇ SCADA, Processs Control & Instrumentation
- The in-house resources included one engineer, eight technical and administrative officers and eleven tradesmen in three workshops. The responsibilities encompassed the maintenance of all the Authority's mechanical and electrical assets and major buildings, the operation and maintenance of the Authority's telemetry system, the design and maintenance of the process control and instrumentation systems, the maintenance of over 150 vehicles and 200 items of plant and the operation of the Stores.
- Support Services was a significant Branch of the Authority, with a \$M3 Recurrent budget and a \$M3 Capital budget per year.

Management highlights include :

- Submissions on behalf of the then Geelong & District Water Board for the 'Industry Commission Inquiry - Water Resources and Waste Water Disposal' and the 'Water Industry Management Study - South West Region'.
- The planning and implementation of Business Centres for Barwon Water.
- Development of the strategy for asset management within the Authority. This included the integration of the Authority's computerised data recording systems .
- As a member of the Implementation Management & Review Group I participated in the monitoring and review of the implementation of the change program for the Authority.
- The successful implementation of quality systems in six required elements, leading to certification in ISO9001. The process of certification included implementation of T.Q.M. principles.
- Inception and development of the Barwon Water Safety Manual;
- Successful delivery of services during amalgamations of Water Authorities (Barwon & Otway).
- Participation in the development of the following policies and strategies :
 - ⇒ Communications – Internet / intranet
 - ⇒ SCADA (telemetry)
 - ⇒ Fleet Management Plan and Usage Policy
 - ⇒ Corporate Governance (Director Liability)

Duties with Barwon Water gave experience in the following areas :

- ◇ Management and Leadership
- ◇ Budget preparation and achievement
- ◇ Industrial Relations
- ◇ Contract supervision
- ◇ Design & Estimation

- ◇ Installation & commissioning
- ◇ Documentation preparation
- ◇ Cost control programmes
- ◇ Labour and materials planning
- ◇ Supervision

Experience in the water industry has given technical experience with the following :

- ◇ Programmable Controllers (Allen Bradley and Square D)
- ◇ Telemetry Systems (radio, pstn, trunked radio, cell phone)
- ◇ Operator GUIs (Citect, Realflex)
- ◇ Operating Systems (Windows 95, NT, QNX)
- ◇ Trunked radio systems

SEPT. 87 - MAY 96

"Engineering Manager Plant Services" (position retitled 'Manager Plant Services' in 1993). This position was responsible for all the Authority's electrical and mechanical resources, which included twenty one tradesmen, four workshops, three engineers and seven technical officers. The responsibilities encompassed both design and maintenance of all the Authority's mechanical and electrical assets. The maintenance effort was directed at 120 water and waste water pump stations, four waste water treatment plants, four water treatment plants, 173 vehicles and approximately 200 items of plant. The design aspect provided a consultancy service to the Authority's Engineering Planning and Development Division and participated in design-out maintenance.

Plant Services was a significant Branch of the Authority, with a \$M3 Recurrent budget and a \$M2 Capital budget per year.

Significant achievements included :

- ◇ Reduction in labour costs of 25% over four years
- ◇ The introduction of computerised maintenance
- ◇ The introduction and management of an extensive telemetry system
- ◇ The introduction and management of an extensive radio communications system
- ◇ The introduction of an Elec / Mech preventative maintenance program

AUSTRALIAN PORTLAND CEMENT LIMITED

- For the period Oct. 1979 till Sept., 1987 I held the following positions :

APR. 87 - SEPT. 87

- "Senior Engineer". This position was part of a team of four reporting direct to the General Manager Technology, working on major projects and company strategies i.e. feasibility, costs evaluation, justifications and implementation plans.
- Duties with APCL (now called Cement Australia) gave experience in the following areas :
 - ◇ Budget preparation
 - ◇ Design & Estimation
 - ◇ Installation & commissioning
 - ◇ Contract supervision
 - ◇ Documentation preparation
 - ◇ Cost control programmes
 - ◇ Labour and materials planning
 - ◇ Supervision
 - ◇ Industrial relations
- Experience in the cement manufacturing process has given experience with the following electrical equipment :
 - ◇ Programmable Controllers (Allen Bradley and Texas Instruments)
 - ◇ Analogue and Digital Instrumentation (Foxboro Spec 200 and Fox 300)
 - ◇ Variable Frequency Drives (Delairco, Danfoss, Power Electronics)
 - ◇ Electrostatic Precipitator Controls (Westinghouse, Merlin Gerin)
 - ◇ Ultra Sonic Level Sensors (Vegas)
 - ◇ Weighfeeders (Schenck, Ramsey, Merrick, Texas Nuclear)
 - ◇ Flow Measurement (Foxboro Vortex, Orifice, Mag. Flow Tubes)
 - ◇ Gas Analysis (Hayes, Hartmann & Braun, Westinghouse)

DEC. 85 – APR. 87

- "Senior Engineer - Instrumentation/Systems". Coordinated all instrument activities within Geelong Plant including budgets for investigations and construction. Coordinated the work of two Electrical Engineers.

JUL. 84 - DEC. 85

- "Project Engineer". This position was responsible for turn-key electrical projects i.e. from conception to commissioning, for the three cement plants (Geelong, Kandos and Traralgon).

JAN. 82 - JUL. 84

- "Electrical Maintenance Superintendent". Employed in the Geelong plant's Maintenance Department and responsible for all electrical maintenance activities. Supervised two foremen (one responsible for general plant electrical maintenance supervising twelve tradesmen, four apprentices and five trades assistants, the other responsible for operating the 10MW gas fired power station supervising seventeen FEDFA employees).

OCT. 79 - JAN. 82

- "Instrument Engineer". Employed in the Group Engineering Department based at Geelong, responsible for all control instrumentation used at APCL's three cement plants and all depots.

DEPARTMENT OF DEFENCE

SEPT. 77 - AUG. 79

- This position was as an Experimental Officer in the Explosives Instrumentation Group. Generally it involved high speed instrumentation of shock waves, burning propellant fuels and ballistic behaviour. The range of work involved the use of ultra high speed cameras, thermocouples, multiplexing data acquisition (original designs based on the Intel 8085 microprocessor) and accelerometers.
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