

STEVEN MCFADYEN

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Chartered electrical leader with a focus on large technically challenging projects. International project experience covers petrochemical, power systems, airports, rail, infrastructure and buildings.

Solid technical leadership, client interface skills and the ability manage local/remote design teams and contractors. Can adapt, quickly get up to speed and run with projects in differing industries and geographic regions.

Able to move projects from Concept/FEED through detailed design, installation, commissioning and final handover. Technical excellence in electrical engineering, enthusiastic about sharing knowledge by actively mentoring/supporting team members.

EXPERIENCE

Qatar Petroleum (Special Division - ASTAD Project Management), Qatar, July 2012 to present
Lead Electrical Engineer

Discipline lead in charge of a team of fifteen electrical engineers. Representing the client for the technical overview of consultants and contractors works during design and construction:

- Qatar Foundation Education City (40 billion USD), consisting of universities, colleges, schools, stadiums, light rail system, convention centre, hospitality, medical and industry research facilities. All infrastructure, building and rail system works.
- Infrastructure master planning for two new economic free zones (5 and 25 million m²). Aimed generally at logistics, light industries, secondary manufacturing and shipping.

Arup Gulf Limited, United Arab Emirates, 2008 - 2012

Electrical Team Leader

Ultimate responsibility for the performance of electrical design teams, both local and remote for all UAE projects.

- Management of the team - recruitment, training, development & performance.
- Key contact and interface with project stakeholders - developers, architects, local authorities, contractors and facility management.
- Key projects: Masdar Zero Carbon City, Aldar HQ building, Guggenheim Abu Dhabi , Dubai Airport expansion and infrastructure master planning for Madinat Zayed.

IDA International, Hong Kong, 2005 - 2007

Electrical Director

Responsible for design delivery and business development of data centres and other mission critical facilities in the Asia Pacific region.

- Major clients - Goldman Sachs, Macquarie, Credit Suisse, Morgan Stanley, JP Morgan, and Deutsche Bank, with facilities in Hong Kong, China, Korea, Japan and India.

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SKM - Sinclair Knight Merz, New Zealand, 2004 - 2005

Senior Electrical Engineer

Team leader for substation, power distribution and large water pumping projects.

- Looked after client relationships, proposals, design, time/cost control, risk management, safety, quality and management of employees.
- Design/construction of several 33/11 kV zone substations (capital cost NZD3m each).
- Two fresh water pumping stations (capital cost NZD40m) for North Otago Irrigation.

Hyder Consulting / KCRC, Hong Kong, (18 month contract) 2002 - 2004

Resident Engineer (E&M)

Exercised autonomy as owners representative on the West Rail Project. Responsible for the control and automation systems for two interchange (KCRC/MTRC) stations, Nam Cheong (HKD3.1 billion) and Mei Foo (HKD1.2 billion).

- Managed engineers, inspectors, consultants and systems contractors.
- Successfully ensured that despite being the West Rail Project's most complex, both stations were the first to be completed and commissioned.

Leighton Contractors Asia, Hong Kong, (12 month contract) 2001 - 2002

Design Manager

Accountability for the E&M Works on a Design and Build Cargo Stand expansion for Hong Kong Airport (HKD162 million) - 400Hz fixed ground power airfield ground lighting, control systems, high mast lighting and aviation fuel supply.

- Interfaced directly with Airport Authority's project & airfield operation teams.
- Executed all technical and commercial decisions relating to system design, equipment selection, purchasing, placing of subcontracts and scheduling of works.
- Project was highly successful, exceeding the clients expectations, completed early and significantly under the planned budget.

Note: following this contract, I carried out several freelance work assignments including:

- Design works for the Hong Kong Airport P306 cargo stand upgrade for the A380.
- Assistance for Manfred Fladung [Cavotec] in setting up operation in Shanghai.
- Tender documentation for a new GAMECO maintenance hanger (Guangdong, China).
- Investigation/cost analysis of using AS-Interface for the Hong Kong route nine tunnels.

Airport Authority, Hong Kong (28 month contract) 1996 - 2000

Construction Engineer

Responsible for the design/construction of the airports two HKD225m seawater-pumping stations, providing cooling water for all Airport facilities on the 12.5 million m² development.

- Managed a team of engineers, consultants and contractors.
- Other responsibilities included specialist electrical input for the ground transportation centre, main terminal building and medium voltage power distribution within the Airport.

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Waste Management Group, Hong Kong & China, 1994 - 1996

Technical Manager

Initially based on site for the SENT landfill project and then moved into Waste Management's Rust Asia Pacific P&I division.

- Client interfacing, management of engineers, conceptual/detailed design, equipment specification and construction co-ordination.
- Projects - SENT landfill, FDA approved pharmaceutical plants for Johnson & Johnson and Allergan and manufacturing plants for International Paper, Duracell and Amway.
- Hong Kong based, with around 40% of time in Shanghai/Hangzhou coordinating with local design institutes, authorities, contractors and equipment.

Conalec / Watson Edwards & V.D.Spuy, South Africa, 1988 - 1993

Principal Electrical Engineer

Joined Watson Edwards on Township projects and subsequently moved to Conalec to work on the Mossgas project (world's largest GTL, gas to liquids facility, now PetroSA).

- Air Separation and Liquefied Natural Gas (LNG) units at Mossgas and fully automatic coal handling stackers/reclaimers for Anglo American.
- Township reticulation, precipitators, mobile switchgear, 660 MW generator protection, water demineralisation, hydrogen plant and ash stackers.

General Mining Union Corporation, South Africa, 1985 - 1988

Section Engineer

Section engineer under the Mines and Works Acts two shafts at Winkelhaak Gold Mine.

- Equipment - shaft winding (people & materials), electrical distribution, ventilation systems, pumping (water & sludge), compressed air systems, hazardous areas, etc.

EDUCATION & AFFILIATIONS

- MSc Electrical Engineering, University of the Witwatersrand South Africa 1994
- GDE Electrical Engineering, University of the Witwatersrand South Africa 1992
- Government Certificate of Competency in Mining (South Africa) 1987
- BSc Electrical Engineering, University of Salford, United Kingdom 1985

- CEng MIET, Chartered Engineer, IET, United Kingdom 1992
- Eur Ing, European Engineer, FEANI 1994
- Pr Eng, Professional Engineer, ECSA, South Africa 1991
- Ir The SAIEE, South African, 1991
- LEED Accredited Professional, GBCI, United States 2004
- Breeam Certified Assessor, BRE, United Kingdom, 2009

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