

# STEVEN MCFADYEN

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Electrical leader with a focus on large technically challenging projects from inception to completion. Capable of fully understanding unique process/operational requirements for each project and taking responsibility for delivering the best engineered solutions.

Chartered electrical engineer with over twenty five years experience on major international projects in a diverse range of industries. Strong technical design and project management skills coupled with the ability to manage local/remote design teams and contractors.

Ability to adapt, quickly get up to speed and run with projects in differing industries and geographic regions. Detailed technical knowledge and enthusiastic about sharing by actively mentoring/coaching team members.

Team Leadership Mentoring/Training	Client Interface Accountable	Technical Excellence Project Management	Professionalism Quality/Standards
Concept/FEED	Detailed Design	Construction	Commissioning
Petrochemical Airports Power Systems	Mining Pharmaceutical Industrial	Rail Manufacturing Water/Pumping	Data Centres Buildings

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## EXPERIENCE

Arup Gulf Limited, United Arab Emirates, 2007 - present

### **Electrical Team Leader**

Responsible for the performance of the electrical teams both local and remote for all UAE projects.

- Management of the local team - recruitment, training, development & technical quality.
- Key contact regarding interfacing with project stake holders - 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 for Asia Pacific projects, concentrating on Data Centres and other mission critical facilities.

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

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

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### **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)**

Responsible for the control and automation systems for the West Rail Project's two interchange (KCRC/MTRC) stations. Nam Cheong (contract value HKD3.1 billion, my works HKD375m).

Mei Foo (contract value of HKD1.2 billion, my works HKD200m).

- Exercised autonomy as the owner's representative in ensuring systems were designed, installed and commissioned successfully.
- Managed engineers, inspectors, consultants, main 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 (contract value HKD162m, my works HKD75m) - 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 and medium voltage power distribution within the Airport.

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

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### Technical Manager

Initially based on site for the SENT landfill project, 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.
- Spent significant portion (30-40%) of time in Shanghai/Hangzhou coordinating with local design institutes, authorities, contractors, equipment vendors and site.

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).

- Supervised engineers, designers, cad operations and contract labour.
- Managed design for Air Separation and Liquefied Natural Gas (LNG) units and fully automatic coal handling stackers/reclaimers.
- Other projects - 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 for the maintenance, functioning and upgrading of all electrical and mechanical equipment for two shafts at Winkelhaak Gold Mine.

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

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## EDUCATION & AFFILIATIONS

- MSc Electrical Engineering, University of the Witwatersrand South Africa 1993
- 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

More about me or to get in touch via my website, please visit: <http://myelectrical.com/steven>

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