

PRINCIPAL ELECTRICAL ENGINEER



TECHNICAL ENGINEERING ADVICE & DESIGN | CONTRACTS & TENDERS | SAFETY & QUALITY COMPLIANCE

Combines technical and communication expertise to manage projects with consistent on time, on budget delivery

Highly skilled Principal Electrical Engineer with robust experience and an impeccable record of performance delivering exceptional results on projects within the heavy industry, mining, power generation and industrial sectors. Solutions focused with an enviable portfolio of achievement providing technical engineering advice and design services, including critical review of design, systems and documents with an emphasis on continuous improvement. Adept at establishing and implementing procedures for optimised performance and expertly manages compliance with Electrical Standards, Regulations, Operating and Workplace Health and Safety procedures, delivering systems of best practice. Engaging people person, cultivating strategic business relationships at all levels with staff, clients and key stakeholders from diverse backgrounds, driving unity and success.

Memberships & Affiliations: Engineers Australia: Fellow; Chartered Professional Engineer; Registered Professional Engineer of Queensland; National Professional Engineers Register (NPER).

SKILLS & EXPERTISE

- Engineering Design & Management
- Electricity & Power Generation
- Instrumentation
- SCADA
- Electrical Distribution Systems
- Power Plants
- Switch Gears
- Low & High Voltage Systems
- Mineral Processing
- Site Inspections
- Technical Design Solutions
- Commissioning Procedures
- Scope of Works
- Project Management
- Tender/Contract Evaluation
- Project Cost & Time Estimates
- HSE Compliance
- Quality Controls
- Contractor Management
- Stakeholder Engagement
- Feasibility Studies

Technology: MS Office (Word, Excel, PowerPoint, Project & Outlook), Adobe Acrobat Professional, Internet Explorer and Mozilla Firefox

CAREER OVERVIEW

Buckstone Limited: Principal Electrical Engineer	2015-2016
Pitcher Partners: Principal Electrical Engineer	2012-2015
ABC Limited: Principal Electrical Engineer	2009-2012
Schumann Group of Companies: Lead Electrical Engineer	2007-2009
FGH Ltd: Principal Electrical Engineer	2006-2007
Office of the Industry Regulator: Principal Engineer	1996-2006

PROJECT HIGHLIGHTS

Expertly managed staff and consultants, driving on-time completion of a Definitive Feasibility Study for the proposed development of an iron ore mine site inclusive of plant, services corridor and port facilities.

Played an integral role on the Tanami Solar Power Project completing conceptual design of a solar power station to support mining operations.

Completed an electrical safety review, spearheading improved electrical safety at AGL's Torrens Island Power Station.

Championed the development of electrical specifications and high and low voltage electrical design on a water pumping stations upgrade project for SA Water.

CAREER HISTORY

BUCKSTONE LIMITED

2015-2016

ASX listed iron ore exploration and mining company with two key iron projects in Australia.

Principal Electrical Engineer

Custom Iron Project (CIP)

Appointed as the Owner's Principal Electrical Engineer for the Definitive Feasibility Study on the proposed development of an iron ore mine, processing plant, port facility and services corridor between the mine and the port.

Key areas of contribution included:

- **Leadership:** Coordinated a team of multi-disciplined consultants, expertly managing activity to deliver completed study on time and within budget.
- **Design:** Reviewed high-level electrical design, monitoring operability and maintainability of the plan, with an emphasis on safety in design.
- **Safety:** Led in-house electrical designers, overseeing works and contributing to health and safety via HAZOP workshops.
- **Negotiation:** Verified costing proposals from prospective electrical equipment suppliers; negotiated with potential power supply companies; and liaised with transmission and distribution system operators in regard to power supply for the mine, port and borefield sites.

" ... an outstanding addition to our team ... your ability to bring projects in on time and budget are much appreciated ... "

G. Matthews: Managing Director, 2016

PITCHER PARTNERS

2012-2015

Leading engineering professional services consulting firm with operations across the globe.

Principal Electrical Engineer

Recruited on a permanent basis to complete multiple projects, applying electrical expertise to assess, improve and implement safe and effective systems.

Tanami Solar Power Project, 2012

Conceptual design of a 10MW solar power station for mining operations including integration into the existing diesel generation system, layout of the solar panels, invertors, transformers and control equipment.

China UHV Study, 2012

Project managed a study on viability and technical aspects of UHVAC and UHVDC transmission systems in China.

AGL Torrens Island Power Station – Electrical Safety Review, 2012

- Managed an electrical safety review and prepared a detailed report of observations and recommendations for improved electrical safety associated with the operation and maintenance of Torrens Island Power Station.
- Project managed electrical design and integration of an upgrade and expansion program for the Power Station Control System UPS.
- Developed electrical safety documents and ensured alignment with AGL's national operations.

" ... extremely knowledgeable ... project management skills are outstanding ... committed to delivering every project with quality, under budget and on schedule ... "

T. Anderson: Group Regional Manager, 2015

SA Water: North-Sound Interconnection System Project (NSISP), 2010-2011

Key contributor to the Adelaide water distribution system upgrade, with a focus on desalination plant output. Developed electrical specifications and prepared high and low voltage electrical designs to replace water pumping stations.

ABC LIMITED

2009-2012

Global provider of engineering, construction and technical services for public and private sector clients.

Principal Electrical Engineer

Completed multiple projects for mining and commercial clients, which spanned electrical/instrumentation design, the preparation of scope of works, rosters and schedules, as well as labour budgets and bid proposals. Conducted site visits to assess conditions impacting design and identify solutions to technical issues that arose during construction.

CAREER HISTORY

SCHUMANN GROUP OF COMPANIES

2007-2009

Schumann is the largest mining company in the world with metal, mining and petroleum interests across the globe.

Lead Electrical Engineer

ODX (Olympic Dam) Project

Reviewed and completed standard specifications and drawings for electrical components of the project. Ensured standard specification documentation was clear and compliant with health, safety, environment requirements. Shared technical skills and knowledge with professionals from other engineering disciplines, inspecting work in progress to monitor progress.

SNC LAVALIN / BHP BILLITON

2006-2007

World leading engineering and construction firm partnering with BHP Billiton to complete feasibility studies at Olympic Dam, South Australia.

Principal Electrical Engineer

Pre-Feasibility Study for Expansion of BHP Billiton Olympic Dam Operations

Provided technical guidance and support to the electrical team and members of other engineering disciplines, reviewed and amended client's standard electrical/instrumentation technical specifications; guided and oversaw value improvement electrical energy studies; and developed conceptual designs of electrical distribution systems.

EARLIER CAREER HISTORY/PROJECT OVERVIEW

Olympic Dam Expansion Feasibility Study, Roxby Downs, SA, Australia, Western Mining Corporation.

Contracts Engineer

Developed, implemented and evaluated tenders, and led negotiations with shortlisted electrical services providers.

Expansion of Operating Metallurgical Plant, Roxby Downs, SA, Australia, Western Mining Corporation.

Site Office Manager / Senior Electrical Engineer / Construction Contracts Manager

Supervised construction personnel, evaluated tenders, and processed purchase orders, progress payments, and claims.

Production Schedules Preparation/Maintenance, Osborne, SA, Australia, Australian Submarine Corporation.

Senior Electrical Engineer

Prepared and maintained production schedules for ship control and combat systems on new Royal Australian Navy submarines.

Olympic Dam Optimisation Project, Roxby Downs, SA, Australia, Western Mining Corporation.

Project Engineer

Prepared tender documentation and evaluated response, led post tender negotiations, and administered contracts.

State Electricity Commission Victoria (SECV) Loy Yang 'B' Power Station, Traralgon, Vic., Australia, SECV.

Project Manager

Provided project management services spanning contracts and tender documentation, contract management, claims processing, contractor audits and works testing of electrical packages.

Goodall Gold, Adelaide River Region, NT, Australia, Western Mining Corporation.

Electrical Engineer

Prepared detailed electrical designs, equipment specifications and project documentation, as well as provided on-site installation supervision and commissioning of programmable logic controller.

QUALIFICATIONS & PROFESSIONAL DEVELOPMENT

Master of Electrical Engineering | Technische Hochschule Darmstadt, Germany, 1979

Leadership for the Future 1-5 | Oz Train, 2001: *Planning & Leading in Times of Rapid Change; Leading in Today's Public Sector; Managing in the Knowledge Environment; The Entrepreneurial Public Servant; and People, Politics & Performance.*