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Engineering & Projects Manager

Holds a B. Sc. in Electrical Engineering and has over 28 years international experience in Power Transmission and Distribution, Power Generation, and Renewable Energy. Has proven track record in engineering management, project management, design, consultancy, construction and commissioning. Delivered high quality power projects for power, mining, industrial, oil and gas companies in Australia, New Zealand, the Middle East and North Africa. Worked for major consulting and EPC companies including SKM - Australia, ABB - Australia, Alstom Power - USA, Lahmeyer International - Saudi Arabia, Al Osais Contracting Co. - Saudi Arabia, and Egyptian Electricity Company.

PERSONAL DATA

Nationality : Australian
Birth Date : 30/07/1966
Gender : Male
Marital Status : Married
Residence : Perth, Australia

EDUCATION

: B. Sc. in Electrical Engineering, Minia University, 1990
: MBA, Australian Institute of Business, Australia (ongoing)

LANGUAGES

Arabic : Good
English : Good
French : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Chartered Professional Engineer (CPEng) NER, Institute of Engineers Australia (2010).
: Registered Professional Engineer Queensland (RPEQ), Board of Professional Engineers of Queensland (2011).
: Chartered Engineer (CEng), Institute of Engineering and Technology, UK (2011).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2018 till now
Employer : Self-Employed - Colaib Engineering - Perth, Australia
Job Description :

- Renewable energy design and engineering, visibility and grid interconnection studies.
- Power Transmission and Distribution Network & Substations Design, Primary, and Secondary (Protection and Control).
- Instrumentation and Control, DCS/SCADA/SAS systems.
- Power System Planning, Analysis and Studies.

Dates : From Feb. 2014 till Jul. 2018
Employer : Lahmeyer International - Saudi Arabia
Job title : Manager - Projects and Engineering
Job Description :

- Responsible for Design / Engineering / Project Management of power transmission and distribution projects for major clients including the Royal Commission in Jubail, Saudi Aramco, and Saudi Electricity Company.
- Managing, supervising, and planning entire engineering and projects activities including developing design deliverables and proposals; ensuring integrity, quality, and timely execution while adhering to standards, requirements, and budget; identifying risks, implementing process improvements, managing scope variation, and conducting effective coordination.
- Leading a multidisciplinary project delivery and engineering teams consisting of 30 engineers and designers, managing projects resources, mentoring and guiding team members; monitoring, developing, and evaluating team performance.
- Managing operating budgets for the projects, monitoring projects' cost to meet budget objectives as per the defined KPIs.
- Reviewing and approving complete tendering package including FEED studies and design reports, conceptual drawings, Project Technical Specifications (PTS), calculations, RFP, cost estimate and MTO, project schedule, and manpower tabulation; ensuring the package meets standards, codes, quality, and stakeholders' requirements, and HSE principles.
- Leading review process of contractor's and vendor's base and detail design, ensuring design meets Project Technical Specifications (PTS), standards, and established contract performance requirements.
- Developing innovative design solutions based on new technologies and smart applications of electrical power systems.
- Providing presentations of design and technical solutions in front of client representatives and executives.
- Reviewing and evaluating contractors' and vendors' proposals/bids, responding to pre-bid and post-bid TQs.
- Effectively managing contract based on a robust understanding of commercial and technical terms.
- Leading quality assurance process of all projects ensuring deliverables meet client's quality manuals and quality standards.
- Leading the development of competitive proposals, ensuring proposals

- meet RFP requirements and profit objectives.
- Preparing monthly progress reports for projects to present to the client executives and higher management.
- Preparing Project Execution Plan, Constructability report, reviewing and approving Project Quality Plan.
- Managing communication with stakeholders, identifying requirements, managing interfaces, discussing technical and commercial solutions, ensuring smooth workflow and project completion as per project schedule, timelines, and budget.
- Overseeing procurement of projects, ensuring procured materials meet established contract procurement requirements.
- Conducting inter-functional coordination meetings with total accountability to drive projects performance.
- Leading site visits ensuring team members captured full site conditions and interfaces to develop integrated design.
- Providing advisory technical and commercial solutions to client – contractor conflicts.
- Continuously following up projects' performance with the client on daily basis to ensure client satisfaction.
- Supporting construction and commissioning activities by frequently visiting sites addressing and resolving technical issues.
- Main Achievements:
 - Successfully led the delivery of power transmission and distribution projects including 380/115/33KV and 115/33KV GIS substations, 380/115KV OHTLs, and 115/33/13.8KV underground Cables with a total contractual value of \$750m, while maintaining high quality, time and budget.
 - Played a stewardship role to design innovative solutions that meet engineering standards and client requirements.
 - Successfully monitored engineering and project budget securing profitable scope and securing favourable margins.
 - Introduced change management process to successfully deliver all technical aspects of the projects, while carried out resources planning, staff mentoring and development as well as managed relationships with key stakeholders.
 - Skillfully managed disciplines, ensuring skills development of the team by providing direction, motivation to team members.
 - Successfully managed to acquire clients' satisfaction and as a result, client invited my company for another tender.

Dates : From Sep. 2012 till Aug. 2013

Employer : ABB Australia - Perth, Western Australia

Job title : Engineering Team Leader

Job Description :

- Leading power system protection, automation, and communication department in ABB branch of Western Australia.
- Leading and performing conceptual and detail design for projects including FAT, SAT and sit investigation.
- Leading the team by giving clear targets, motivation, support and coach to increase skills and performance.
- Supervision and assurance of correct execution of tasks to fulfill given

- project targets.
- Performing capacity planning for assigned team members considering availability and demand side.
- Development planning of team members to increase knowhow in line with the company's vision and targets.
- Taking decisions on team members' hiring, promoting, appraisals and off setting.
- Improving the execution processes to increase productivity and quality.
- Leading design review meetings with clients and stakeholders.
- Main Achievements:
 - Successfully introduced best practices in the engineering work through the complete project lifecycle to deliver five projects for major clients like Rio Tinto as per quality norms, on time with budgetary savings.
 - Implemented engineering management systems, continuously communicated with stakeholders on project programme and highlighted areas of concern as well as dealt with prompt resolution of all disputes and claims.
 - Successfully led the power system team with engineers and draftsmen, developed skills of team members ensuring the team includes several qualified members with mix of level of experiences.

Dates	:	From Dec. 2008 till Sep. 2012
Employer	:	Sinclair Knight Merz (SKM), Western Australia
Job title	:	Senior Executive Electrical Engineer
Job Description	:	<ul style="list-style-type: none"> • Leading the electrical design, construction and commissioning teams for conventional and renewable power generation and transmission and distribution projects including consultancy and design services. • Coordinating multi-discipline engineering design assignments across disciplines involved in the project, ensuring no compromise on technical integrity, quality, and safety in engineering design. • Preparing, reviewing, and supervising technical aspects of the projects with primary focus on timely submission of engineering deliverables including concept and detail design, studies and design reports, calculations, specifications, data sheets, drawings, procedures, O&M manuals and as-built drawings. • Ensuring full compliance of the design packages with QHSE requirements as per the ISO 9001:2008 QMS, ISO 14001:2004 EMS, & OHSAS 18001:2007 guidelines. • Organizing inter-functional coordination meetings to discuss with the client representatives on project and engineering matters, and escalating issues at the highest level if deemed necessary. • Supervised construction and commissioning activities on site ensuring they meet approved design, meet applied safety plans and client's requirements, tracking day-to-day site activities and reporting to the internal management and the client. • Conducting review for construction and commissioning method statements, procedures and ITPs. • Carrying out inspections and tests as required, maintaining complete

records of successful completion of approved work.

- Main Achievements:
 - Successfully delivered several power generation projects including Solar, wind, Coal, Geothermal, Gas, Hydro Power Stations for major clients including Rio Tinto, BHP, Power Water Corp, International Power, Meridian, Verve Energy, and others.
 - Successfully completed the fast track Channel Island gas turbine power station and 132kV Hybrid GIS substation project which was delivered in one year as set by Power Water Corp, Northern Territory.
 - Successfully lead and delivered several power transmission and distribution projects across different states and regions.
 - Successfully developed proposals meeting company's financial and strategic goals.
 - Played a pivotal role in leading the electrical design and commissioning teams, also managed projects and developed proposals meeting company's financial and strategic goals as well as insured clients' satisfaction.
 - Successfully built a virtual teaming model with different branches in Australia, NZ and UK for several projects.
 - Provided significant contribution to establish and streamline processes, value delivery, and improve performance.
 - Built and maintained strong relations with various clients by delivering quality projects and meeting deadlines and budget.

Dates : From Jun. 2006 till Oct. 2008
Employer : Al-Osais International Holdings Co. - Saudi Arabia
Job title : Senior Project Manager

Dates : From May 2004 till Apr. 2006
Employer : Alstom Hydro - USA
Project : Egypt Projects
Job title : Senior Electrical Engineer

Dates : From Apr. 1998 till Apr. 2004
Employer : Hydro Plants Generation Co. - Egypt
Job title : Chief Electrical Engineer

Dates : From Apr. 1995 till Apr. 1998
Employer : Hydro Plants Generation Co. - Egypt
Job title : Senior Electrical Engineer

Dates : From Apr. 1991 till Mar. 1995
Employer : Upper Egypt Electricity Co. - Egypt
Job title : Operation Engineer

- Field of experience :**
- **CORE COMPETENCIES:**
 - Engineering Management.
 - Project Management.
 - Technical Leadership and System Engineering.
 - Team Leadership and Development.
 - Stakeholders Management.
 - Continuous Risk Management.
 - Quality Assurance and Control.
 - Financial Management.
 - Process and Efficiency Improvement.
 - KPIs Development and Adherence.
 - Business Development.
 - Proposal Management.
 - Regulatory Compliance.
 - Systematic Problem Analysis and Solving.
 - Safety and Environmental Compliance.
 - **KEY DELIVERABLES:**
 - **Engineering Management:** Leading the development and delivery of advisory, design and engineering services and proposals across power segments; managing engineering resources; delivering projects on time, on budget, and on high quality.
 - **Project Management:** Possess a verifiable track record in project management, adeptly achieving all predefined timelines, budget, scope, specifications and quality objectives; managing changes, and additional works.
 - **Technical Expertise:** Comprehensive technical expertise in power sector including technical studies, conceptual and detail design of transmission and distribution systems, electrical design of conventional and renewable power stations; all within international standards.
 - **Team Leadership:** Self-motivated with leadership skills in managing activities relating to communications and staff development including cultivating and stimulating individual talent, promoting and securing training resources, transferring knowledge and experience, building relationships, facilitating team success, providing directions and delegating responsibility.
 - **Financial Management:** Leveraged skills in creating and managing projects budgets, managing change variations, negotiating renewals, meeting budget objectives to attain financial targets as per the defined key performance indicators.
 - **Business Development:** Resourceful with power market across the Middle East and North Africa, Australia and New Zealand. Building and maintaining strong business and industry contacts, enabling key partnerships and alliances, delivering innovative solutions to clients and generate increased company revenue.
 - **Change Management:** Prowess to develop, implement, and streamline processes, policies, systems, and procedures to drive continual improvement in process performance and augment efficiency.
 - **Organizational Experience:** Solution-oriented with attention to

details, has multi-tasking ability and high-stress tolerance to work under pressure; committed to deadlines; possess communication, presentation, and interpersonal skills.

- TECHNICAL SKILLS:

- Technical visibility studies of conventional and renewable power stations, and due diligence.
- Conceptual and detail design of electrical systems of gas, hydro, solar, wind, and thermal power stations.
- Conceptual and detail design of GIS and AIS substations, OHTLs, and UG cables up to 500KV.
- Specifications of electrical equipment and systems of gas, hydro, solar, wind, and Geothermal power stations.
- Specifications of electrical equipment and systems of GIS and AIS substations, OHTLs, UG cables.
- Conceptual and detail design of T&D systems, medium and low voltage distribution systems.
- Power stations and substation investigation and options studies to recommend the most practical and economic solution.
- Preparation of tendering packages of power projects including RFP, project technical specifications and concept design, cost estimates, MTO, design reports, project execution plan, project schedule, and manpower tabulation.
- Grid interconnection studies for renewable power stations.
- Power system studies using software packages, ETAP, PTW, CYME.
- Experienced in protection, SAS, SCADA, IEC61850 of power systems, and smart applications of power systems.
- Reviewing and approving contractors' and vendors' design of power systems.
- Testing and commissioning of power stations and substations.
- Operation and maintenance of power stations and grids.
- Full awareness of health, safety and environment issues towards zero harm and zero environmental incidents.
- Knowledgeable with international standards for power including IEC, ANSI/IEEE, NEC, AS.

- SUMMARY OF REFERENCE PROJECTS:

- Channel Island Gas Turbine Power Station and 132KV Hybrid GIS switchyard, Power Water Co, SKM, Darwin, NT, Australia.
- Oaklands Hill Wind Farm, SKM, AGL Energy, Victoria, Australia.
- Olkaria-2 Geothermal Power Station, KenGen, SKM, Kenya.
- Yurralyi Maya Gas Turbine Power Station and 220/33/11KV switchyard, Rio Tinto, SKM, Western Australia.
- Yallourn Power Station stage 2 (375MW Generators 3 & 4, and 200MVA GSUT), SKM, TRUenergy, VIC, Australia.
- Benmore Hydropower Station 590MW, Meridian Energy, SKM, New Zealand.
- Greenough River Solar Farm grid interconnection studies and design, Verve Energy, SKM, Western Australia.
- Cap Lambert Power Station, 220/33/11KV GIS substation, Rio

- Tinto, ABB, Western Australia.
- West Angeles Power Station, 220/33/11KV substation, Rio Tinto, ABB, Western Australia.
- Mining Area C distributed generation plant, SKM, BHP, Pilbara, Western Australia.
- Hazelwood coal fired power station, SKM, International power, Victoria, Australia.
- Muja coal fired power station, SKM, Verve Energy, Western Australia.
- Davenport Substation 275/132/33KV, ElectraNet, SKM, South Australia.
- Wairau Zone 220KV GIS substation, SKM New Zealand, Vector Limited, New Zealand.
- Casuarina 66/11KV Substation, Power Water Co, SKM, Darwin, Australia.
- Fisherman Landing 66/11KV substation, Cement Australia, SKM, Queensland.
- 22KV mobile substation, Power Water Co, SKM, Darwin, NT, Australia.
- 11KV mobile switchboard, Power Water Co, SKM, Darwin, NT, Australia.
- Assets replacement of 132/66/33/22/11KV bays in different substations, SKM, Horizon Power, Western Australia.
- Developing testing and commissioning procedures for HV/MV/LV, Pluto LNG plant, SKM, Woodside, Karratha, Australia.
- Golden Bay Cement 11/3.3KV electricity distribution system, SKM, Portland, New Zealand.
- MV/LV motor control centres (MCC), Fimiston & Gidji gold processing plants, KCGM Gold Mining, SKM, Western Australia.
- Paraburdoo 220KV substation, Rio Tinto, ABB, Western Australia.
- MicroSCADA automation of 6.6KV switchboards of Karatha Gas Plant, Woodside Oil & Gas, Western Australia.
- Anderson Point three terminal 66kV transmission line, SKM, Alinta Energy, Port Hedland, Western Australia.
- Aswan Dam Hydropower station 2.4GW and 500/220/132KV switchyards rehabilitation, Hydropower Co, Alstom, Egypt.
- Primary GIS substations #1, 2, 3 – 380/115/33KV and 380kV OHTLs, Ras Al-Khair Industrial City, Lahmeyer International, Royal Commission for Jubail, Saudi Arabia.
- 115KV OHTLs/UG Cables, Maritime substation, Ras Al-Khair Industrial City, Lahmeyer International, Royal Commission, KSA.
- Al-Reggah GIS substation 115/13.8KV, Jubail Industrial City, Lahmeyer International, Royal Commission for Jubail, KSA.
- 115KV Underground Cables to Marduma substation, Jubail Industrial City, Lahmeyer International, Royal Commission, KSA.
- Switching Stations CC1 – CC2- 33KV, Ras Al-Khair Industrial City, Lahmeyer International, Royal Commission for Jubail, KSA.
- 33KV Cables power supply to different facilities, Ras Al-Khair Industrial City, Lahmeyer International, Royal Commission, KSA.

- 33KV extension in existing substations in Jubail Industrial City, Lahmeyer International, Royal Commission for Jubail, KSA.
- Technical Support during construction for power projects in Jubail Industrial City and Ras Al-Khair Industrial City, Lahmeyer International, Royal Commission for Jubail, Saudi Arabia.
- Unaiza GIS Substation 132/13.8KV, Al-Osais Holding Co, Saudi Electricity Co, Saudi Arabia.
- Al-Morooj GIS Substation 132/13.8KV, Al-Osais Holding Co, Saudi Electricity Co, Saudi Arabia.
- North Park Office Complex GIS substation 115/33KV and 115KV OHTLs, Al Osais, Saudi Aramco, Dhahran Saudi Arabia.
- North Corporate Data Centre GIS Substation 115/13.8KV and 115KV OHTLs Al Osais, Saudi Aramco, Dhahran Saudi Arabia.