

MUSHAHID M. KHAN CPEng in-progress | MIEAust Civil Eng. | MSc - PM | UNSW - HBS

Delivering high-quality, sustainable engineering & Management solutions that support innovative development

Multilingual Project Manager having 9+ years of experience and a proven track record of success managing the on-time and under budget delivery of large-scale, complex Greenfield and Brownfield oil, gas and energy engineering, procurement and construction (EPC) projects ranging from \$150M to USD\$1B+ for global market leaders including British Petroleum (BP) and SANTOS. Adds value with diverse experience leading **HDPE Pipeline, Plant Relocation, Coal Seam Gas Industry, LPG and Amine Gas processing, currently working on Santos GLNG pipeline project. Key Strengths Include:**

- Possesses international experience and expertise in project management through PMBOK particularly in **NEC4 Contract, variations/claims, costing and forecasting cost, earned value analysis, change in scope, tendering, monitoring and control of project progress, risk assessment and engagement in development of detailed scopes of work along with technical documentation, bid evaluations and contract development** combined with a collaborative, hands-on leadership style to mentor, motivate and inspire individuals and teams to achieve optimal performance. *Australian Permanent Resident. Open to relocation.*
- Highly regarded for **strong technical, analytical and investigative skills** that have contributed measurable results in minimising downtime, enhancing reliability, maximising resources and controlling costs to optimise efficiency, productivity and profitability. Manages projects ranging from USD\$10M up to USD\$200M.
- **Natural communicator** who engages stakeholders and aligns vision with overall strategic and operational objectives. Forges positive relationships across all professional levels through natural rapport to meet objectives. Distils complex technical information into understandable language for non-technical audiences.
- Fosters a commitment to ongoing professional development underpinned by a **BS in Civil Engineering, MSC Project Management from University of New South Wales (UNSW) and a Project Management Professionals Training from International Human Resource Development Corporation.** Currently enrolled in **Harvard Business School** online course work program i.e. Financial Accounting.
- **Technical Competencies Include: ARC GIS, PLAXIS, Rock-Science, Primavera P6, Power BI, ENVISON and Maximo,** supported by a working knowledge of Industry codes and QA standards.

KEY SKILLS

NEC 4 Contract	Earned Value Analysis	Cost forecast & Analysis
Project Management	QA/QC Protocols	Cross-Functional Leadership
Risk Management & Mitigation	Key Performance Indicators (KPI)	Stakeholder Engagement
Technical Documentation	Technical Problem-Solving	Strategic Relationship Management
Procurement & Logistics	Vendor Management	Flow Line Construction
Budget Management (USD\$10M)	Mechanical Construction	Strategic Planning & Execution

SELECT HIGHLIGHTS & ACHIEVEMENTS

SANTOS GLNG ROMA, Arcadia & FAIRVIEW (Jan 2019 – to date): GLNG project in 2007, a pioneering project to convert natural gas, including coal seam gas from the Bowen and Surat Basins, into LNG for export to Asia. MPK Kinetic Supports Construction Services for pipeline of more than 900 KM connecting 832 wells and covering a total area of 4400 Sq.KM.

- Provided strategic leadership in the planning and execution through NEC 4 Contract. Reviewed IFC construction packages and bill of quantities (BOQ) to form WBS and estimate construction durations for each activity. Tracked change in scopes that are to be added as compensation events and delays. Issuance of revised baseline for additional packages. Updated and track progress through envision. Mobilised sub-contractors and crew members to perform the job as per the schedule.

SELECT HIGHLIGHTS & ACHIEVEMENTS CONTINUED...

- Complete Risk Assessment for the project & jobs. Monitored and controlled construction progress through Envision. Prepared overall weekly progress reports covering manpower and cost. Controlled fabrication and field construction engineering schedule.

ALBION RAIL PARK PRINCES HIGHWAY UPGRADE (July 2018 – Dec 2018): Albion Rail Park Princes Highway Upgrade is the extension of M1 Princes Motorway between Yallah and Oak Flats to bypass Albion Park Rail. The NSW Government has provided \$65.6 million in the 2018/19 budget to commence construction on the bypass.

- Compiled geotechnical investigation and testing results for establishing sub-soil profile using GINT. Defined zones for construction based on sub-soil profile. Completed detail design for soft soil using PLAXIS – 2D and 3D, Seep – W (Geo-Studio) and L-Pile. Detail design included installation of PVDs, geotextile and stage construction of road embankment for over-consolidation of sub-soil to meet client requirement. L-pile used for establishing lateral load profile on bridge abutment piles.

LPG PLANT UPGRADE (Nov 2016 – April 2017): Upgrade of an existing LPG plant from 100 MTPD to 210 MTPD through installation of a molecular sieve unit, LPG recovery plant with a turbo expander/cold box, sales gas compressors, LPG storage bullets, metering/loading setup and associated utilities upgrades. Adhered to a tight project timeline of 8 months to complete construction within an existing LGP and gas processing facility which carried far greater risks since hot work would need to be performed.

- Provided input to design engineer regarding site conditions and mobility restrictions (as it's a brown field project). Review construction packages before their issuance to establish their construction methodology. Communicated between all stakeholders including contractors, maintenance and operations teams to identify key areas of concerns and generate solutions to mitigate risk and delays.
- Lead team of two construction site supervisors (CSS) to conduct site inspections, track additional scope of work, variations, claims and to facilitates resolution of quality and drawing issues in line with recommended industrial codes and standards. Verified in-term payment certificates for completed work quantities as per contract and maintained risk register.

WELL SITE CONSTRUCTION (Oct 2014 – Oct 2016): Construction of 60 new well site construction for 8 rigs over the period of two years. These rigs vary in size and power i.e. from 2500 hp to 650 hp drilling rages from few 100 meters to more than 5000 meters. Standard construction drawing was used for all wellpads.

- Developed wellpad construction schedule in collaboration with drilling, operations and procurement department. Incorporated construction, procurement and drilling delays to avoid any conflicts. Most of time-consuming planning work is completed in last quarter of the year when there is less work around capital projects.
- Completed process of approvals from govt. authorities including environmental impact assessment reports (EIA) for every wellpad in collaboration with Land Management and Health Safety & Environmental departments. Mobilised stakeholders including contractors, maintenance and operations teams to identify key areas of concern and generate solutions to mitigate risk and execute all construction plans on schedule.
- Led team of four construction site supervisors (CSS) to conduct site inspections track additional scope of work, variations, claims and to facilitates resolution of design and quality issues with designer and QA/AC department. Verify contractor payments and maintained risk register.

INFRASTRUCTURE FACILITY DEVELOPMENT (Jan 2015 – June 2015): This project includes construction of residential and building facility aimed to run operations, maintenance and production of 70000 BOED. It consists of 12 construction packages i.e. roads buildings, earthworks, Utilities, electrical works, Storm water drainage, fire water network, Maintenance workshop, Storage yards and warehouse.

- Involved in bidding, design and planning phase of the project. Completed technical bidding elevation for design works. Supervised the design phase of the project including division of construction packages and their hierarchy of design and construction, ensuring this hierarchy is in-line with company's quarterly budget allocation for the project. Supervised construction schedule development and contractor mobilization. Effectively communicated between all relevant department close design and planning phase ahead its timeline.

SELECT HIGHLIGHTS & ACHIEVEMENTS CONTINUED...

- After contractor mobilization project was handed over to project management consultants for its execution and delivery. Monitor weekly progress report of contractors ensuring timely completion of the project. Financial and billing of the project was looked after by commercial department.

BLANKET PURCHASE ORDER – BPO (June 2015 – Oct 2016): The jobs were either small modification projects in brown field or urgent maintenance/operations rectification jobs. BPO projects ranges from few hundred dollars to 50 thousand dollars, projects worth less than 10 thousand dollars were award on sole discretion of construction engineer. These jobs required intense coloration between field operations and maintenance departments

- Developed quotations and quantity estimation through GIS maps and filed measurements. Provided communication between all relevant departments for scope clarity, approval of documents required for commencement of work, PSSR and package closure. Supervised construction activities through two construction site supervisors (CSS). Looked after contractor variations and claims through final billing certificate.
- Developed tier-based contractor performance system for job allocation worth less than 10 thousand dollars. Tackled the challenge involving increased costs by revising the blanket contract strategy and integrating the contract with work-unit rates that resulted in increased flexibility on services plus an added benefit of reduced costs. Achieved 25% savings within the first 3 months and annual savings exceeding USD\$500K.

CAREER CHRONOLOGY

Project Manager | MPC Kinetics

January 2019 – to date

Provided strategic leadership to the project. Reviewed IFC documentation for scope of work, building construction schedule and extracting quantities. Review method statement from construction team and provide input to eliminate or reduce shutdown durations. Managed full project lifecycle including coordinate the changes in construction schedules, method statements and manning charts. Manage change in scope or additional scope of work, variations and claims. Prepare progress reports, manpower, costs and align construction and procurement schedule to avoid any delay. Provide overall progress reports and other reports related to schedule and cost as required by the Project Manager. Develop and oversee construction process to ensure effective and satisfactory progress.

Project Engineer | SMEC

May 2017 – December 2018

Completed soft soil design for Albion Rail Park bypass project including PVD, staged construction of embankment and adding surcharge along road alignment prior to construction for consolidation of soft soil. Completed bridge abutment pile design in soft soil under different construction methodologies to reduce creep and meet design criteria. Most of the design works are completed using Plaxis, L-pile, Slope-W and Slide.

Master's in Project Management | University of New South Wales

July 2017 – July 2018

Completed Full Time Master's in Project Management from UNSW Kensington Campus.

Project Engineer – Project Manager | United Energy Pakistan

October 2013 – April 2017

Provided effective communication between all stakeholders. Develop construction strategies to mitigate risk and delay resulting in health safety, time and finance loss. Supervised construction activities and monitor work progress for timely and successful completion of projects meeting desired Quality Standards/ Specifications closeout. Provide inputs for constructability Review. Plan and monitor project schedule/progress through P6. Review Activities Plan, Task Risk Assessment, Hazard Identification and preparation of Safety Action Plan and their implementation the project. Effective implementation of change management techniques & change orders. Verifies completed work quantities per terms of contract and maintain cost record of all services received. Works towards utilization of new technologies and methodologies in projects development, implementation and management.

CAREER CHRONOLOGY CONTINUED...

Geotechnical Engineer | NESPAK

September 2012 – October 2013

Conducted geotechnical site investigation and laboratory testing to establish soil profile. Write and review geotechnical investigation and feasibility reports. Conducted rock coring and laboratory testing to design and analysis of rock slope on DIPS, Rocplane and Swedge. Complete Soil slope design and analysis on Slope – W, Seep – W, Slide and Phase 2. Issuance of design, construction and as-builts drawings to the owner.

EDUCATION

Cohort, **Project Finance & Financial Accounting** | Harvard Business School

Master of Science (**MSc**), **Project Management** | University of New South Wales

Bachelor of Science (**BSc**), **Civil Engineering** | National University of Sciences and Technology (EA Accredited)

CERTIFICATIONS + LICENSURES + TRAINING

Project Management Professional | IHRDC (October 2016)

Certified Lifting Operations Specialist based on North Sea Lifting Standards (UEP in-house)

Courses & Workshops:

- 4 Wheel Drive Training (MPK, 2019)
- Santos Permit to Work (MPK, 2019)
- Industrial Safety Induction (MPK, 2019)
- White Card (SMEC, 2018)

OTHER

- **Languages:** English (full professional proficiency), Punjabi/Urdu (native/bilingual)