

MOHAMMAD ZIAD ALKHATIB

AE (Associate Engineer)

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Career Summary

Dynamic and motivated water treatment and desalination professional with a strong academic background and extensive experience in the planning, design, and contract management of WTP and WWTP projects. Currently serving as a Contract Manager at the Saudi Water Partnership Company (SWPC), I leverage deep expertise in PPP frameworks and Sewage Treatment Agreements to oversee mega-scale infrastructure. Beyond technical design, I am highly proficient in managing complex contract lifecycles, including the robust administration of claims, dispute resolution, and conflict mitigation to ensure project continuity and compliance. My expertise spans the initiation of desalination, ultra-pure, and radioactive water treatment projects, where I combine strategic decision-making with exceptional communication to evaluate options and deliver solutions in high-stakes environments.

Qualification Highlights

- **15+ years of experience** working in water treatment, wastewater treatment and desalination plant planning and design.
- **Very Good Experience in WTPs projects including Mega/medium/small WTPs projects, Mega/medium/small Desalination projects, Ultra-pure water Projects, Rehabilitation of existing WTPs and radioactive water treatment projects.**
- Very good knowledge and Experience in WWTP and IWWTP.
- Excellent knowledge and experience in designing WTPs with optimal treatment units with the highest efficiency and lowest cost.
- Excellent knowledge and experience in preparing Tender documents including (specification, BOQ etc.).
- Excellent knowledge and experience in non-conventional treatment like MF, UF, RO, MB, and Aeration tower.
- A unique ability to communicate and clarify information with excellent experience as a Trainer in the field of water treatment/desalination & Excel.
- **AE (Associate Engineer RANK in Water treatment and desalination from JEA)**
- Proficient user of **RO design software** with excellent knowledge of hand calculations.
- Proficient user of **Excel and PowerPoint** especially for creating accurate, smart, detailed design calculation programs/modelling and presentation & good user of Primavera p6, AutoCAD, Water CAD, and office programs.
- Dynamic, results-oriented problem solver with proven adaptability to differing cultural and business environments in order to achieve project goals.
- Efficient coordination with cross-functional departments to identify project issues, and work with project manager & team members to ensure resolution.
- Very good understanding of the **PPP** projects and their requirements for advisory services (LTA, STA, ESIA...etc.).
- Know how to prioritize and operate proactively with great technical and analytical skills.
- Ability to handle various situations responsibly and take pride in achieving the best possible results.
- Detail, Cost and Quality-oriented with a competent ability to identify, analyze and solve problems.
- Excellent ability to understand the **RFP** requirements and define cost-related items.
- Very good team member in **value engineering** exercises moreover in bringing optimization ideas.

- Extensive expertise in **contract management**, specializing in the administration of claims, dispute resolution, and conflict mitigation to safeguard project timelines and commercial compliance.
- Deep proficiency in managing the full lifecycle of **PPP agreements** (STA/WPA), including technical-legal alignment, developer performance monitoring, and ensuring adherence to MEWA and international standards

Professional Experience

- **Contract Manager, SWPC** (Riyadh/KSA) August 2024 – Present
 - Managed a portfolio of 6 PPP projects, overseeing contract administration, detailed design compliance, and the transition from construction to operational phases.
 - Led dispute resolution and claims management, proactively mitigating conflicts and technical disagreements to safeguard SWPC's commercial interests and project timelines.
 - Directed rigorous invoice verification and financial auditing, ensuring monthly service payments and performance deductions complied strictly with STA/WPA payment mechanisms.
 - Authored formal contractual correspondence and strategic position papers, representing SWPC in high-level negotiations and providing briefings for executive management.
 - Conducted agreement inspections and compliance audits, verifying that plant operations, safety protocols, and environmental limits met all project output specifications.
 - Developed executive dashboards and weekly progress reports, utilizing data visualization to transform complex technical and commercial data into actionable management insights.
 - Led stakeholder management and cross-functional coordination, aligning interests between government entities (MEWA/NWC), international consultants, and private developers to drive project success.
- **PROCESS DESIGN SENIOR ENGINEER, NWC** (Qassim/KSA) April 2024 – August 2024
 - Managed two agreements portfolio of 47 projects, overseeing detailed design and implementation.
 - Supervised and coordinated the work of 2 international consultants, ensuring project alignment with NWC requirements.
 - Led and managed a team of 13 senior engineers, fostering collaboration and driving project success.
 - Reviewed and approved project invoices, ensuring financial accuracy and adherence to budgetary constraints.
 - Participated in high-level meetings with senior management, contributing to strategic decision-making processes.
 - Attended weekly progress meetings and made crucial decisions to drive project success.
 - Maintained detailed project logs, documented achievements, and prepared achievement sheets, facilitating transparency and accountability in project progress.
- **SENIOR PROCESS AND DESIGN ENGINEER, MIAHONA** (RIYADH/KSA) April 2021-April 2024
 1. AlHaer Independent Sewage Treatment Plant - ISTP (200,000 CMD) **Successfully won**
 2. Long-term operation and maintenance for Hadda and Arana STPs (500,000 CMD). **Successfully won**
 3. Ras Tanura Industrial wastewater plant (20,000 CMD). **Successfully won**
 4. Operation and maintenance of Spark wet utilities. **Successfully won**
 5. Management Contract for Operation and Maintenance of Eastern Cluster **Successfully won**

- Conduct initial project screening, reviewed potential project strategies and identified cost-related items in RFP for the project.
- Undertake the responsibility of preparing a project brief presentation to effectively communicate the project requirements and the magnitude of the undertaking to the senior management of the organization.
- Assess the needs of the legal and business development departments for effectively addressing technical inputs in the context of ongoing projects.
- Conduct a thorough analysis to identify technical risks for the project and develop an appropriate risk profile to effectively manage and mitigate these risks.
- Evaluate each component of the project and identify the areas where mark-ups could be applied to fulfil the client's objectives while remaining within the budget constraints.
- Prepare EPC and O&M cost estimations that would give senior management a clear understanding of the size of the project and use these estimates as a basis during optimization workshops with EPC and O&M company attendees.
- Review the payment mechanism of the project, explore potential opportunities for increasing earnings, and provide recommendations on the technical inputs required in the financial model.
- Conduct a thorough evaluation of EPCs and recommend the most appropriate one for the ongoing project.
- Lead the team responsible for reviewing the EPC proposal and ensuring compliance with the RFP.
- Lead the team responsible for optimizing the EPC cost and providing a cost-effective solution to achieve a more competitive overall tariff.
- Provided guidance to the O&M subsidiary and made recommendations to improve proposals, as necessary.
- Evaluate the EPC contract, O&M contract and EPC term sheets, from a technical perspective.

- **WATER TREATMENT/DESALINATION ENGINEER, SAUDCONSULT (RIYADH/KSA)**
SEP 2013-April 2021

1. Upgrade of the water treatment plant in Buridah (150,000 CMD).
2. Design review of the water treatment plant in Timaa (60,000 CMD).
3. Upgrade of the water treatment plant in Najran (50,000 CMD).
4. Design of water treatment plant in Mlidah & Nafi (25,000 CMD each).
5. Design of water treatment plant in Shaqraa (15,000 CMD).
6. Design of Misk city TSE water reuse plants. (6500 CMD).
7. Design of water treatment plant in Laseeb & Wahlan (5,000 CMD each).
8. Study of water pollution in rabgh dam WTP.
9. Others
 - Visit existing water treatment/desalination plants and prepared a detailed report to evaluate the existing situation, which help the client to understand the plant glitches.
 - Redesign & upgrade existing water treatment/desalination plants to eliminate the glitches and rehabilitation it for radionuclide removal including (upgrading process unit, plant hydraulic, landscaping, chemical dosing, piping route, and evaporation pond area).
 - Collect, Study & analyze the data of wells including (client requirements, proposed site layout and available space, and raw water analysis) for building new WTPs.
 - Prepare PFD schematic after choosing the optimal WTP process units which achieve the highest efficiency, lowest cost, client requirement, and design criteria) in cooperation with the project team.
 - Prepare WTP mass balance, evaporation and RO projection calculations.
 - Prepare detailed & accurate design calculations for each unit in WTP.
 - Prepare hydraulic calculations and design optimal interface between WTP units.
 - Prepare other calculations including (Chemicals dosing, Electrical consumption, and mechanical unit).

- Coordinate with other departments to prepare structure, mechanical and electrical drawings & calculations.
 - Supervise the preparation of engineering drawings.
 - Prepare tender documents including (specification, and BOQ).
 - Review & develop WTP tender documents, drawings and design as one package to achieve the value study target.
 - Review & evaluate contractors' technical proposals.
 - Participate in creating and presenting project situation presentations to management and client.
 - Create accurate, smart, detailed design calculation program/modelling for the project.
- **PROJECT ENGINEER, WHITE SEA FOR WATER TREATMENT (AMMAN/JORDAN) SEP 2012-SEP 2013**
- Organize a meeting with the client to collect the needed data and know the client's requirements.
 - Study & analyze the data to prepare schematic design after choosing the optimal WTP process units which achieve the highest efficiency, lowest cost, client requirement, and design criteria).
 - Prepare detailed & accurate design calculations for Mid/Small/Ultra WTPs.
 - Efficiently organize & supervised construction team.
 - Ensure that all materials used, and work performed are as per client requirement.
 - Supervise the handover of the project to the client after archiving the project targets.
- **ENGINEERING TRAINER (Tutor) June 2012-Present**
- Held a training course in advanced Excel at Jordan Engineers Association.
 - Held 26 training courses in planning and designing desalination plants using Reverse Osmosis systems at Jordan Engineers Association, Jordan University and several Saudi universities (KFUPM, KAU, ..etc.).
 - Held a training course in designing a desalination plant using a Reverse Osmosis system at different dimensions.

Education

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| • (B.Sc.) Water and Environmental Engineering Al-BIqaa Applied University, Jordan | 2008-2012 (GPA 3.16) |
| • Engineering Contract Management Diploma Arab Center for Arbitration | 2025 |

Training course

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| • Arab Arbitration Law | Riyadh, KSA | 2026 |
| • Specialized and International Arbitration | Riyadh, KSA | 2026 |
| • The Comprehensive Arbitration Program | Riyadh, KSA | 2026 |
| • International Arbitration Course | Riyadh, KSA | 2026 |
| • Advance Law | Riyadh, KSA | 2026 |
| • Law and Contract in Construction Industry Course | Riyadh, KSA | 2025 |
| • Claim and Variation Order in Engineering Contract | Riyadh, KSA | 2025 |
| • Professional Contract Engineer | Riyadh, KSA | 2025 |
| • Finance for non-financials | Amman, Jordan | 2022 |
| • Facility management | Amman, Jordan | 2022 |
| • Energy Recovery device in Desalination plant. | Riyadh, KSA | 2021 |

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| • Water Analysis | Riyadh, KSA | 2020 |
| • Primavera p6 Training program | Riyadh, KSA | 2020 |
| • Planning and design of wastewater treatment plant | Amman, Jordan | 2013 |
| • AutoCad | Amman, Jordan | 2012 |

Scientific participations

- Participate in the scientific day of drinking water in Jordan by research about water desalination in Jordan at Jordan Engineers Association.

Engineering Rank & Awards:

- Associate Engineer (**AE**) in Water treatment and Desalination from Jordan Engineers Association / 2017-2023.
- Jordan Engineers Association Award for **Creativity**/ 2016

Publications

- kma lm takon mn kabl " كما لم تكن من قبل " book, Mohammad AlKhateeb and Arwa AlZoubi, register number of 4609/9/2015 at the Ministry of Culture.

Industry Memberships

- Jordan Desalination and Reuse Association (JODRA).
- Jordan Engineers Association (JEA).
- Saudi Council of Engineers.
- Water and Environment Committee in JEA.

References

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| • ENG. Alaa Orabi, Senior Project Engineer (Saud Consult) | +966 50 434 2600 |
| • Prof. Bashar Ammary, Water professor (BAU) | +962 79 599 1476 |