

Bahaa Shehab

Maintenance Engineer

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PERSONAL STATEMENT

I am an energetic, confident, and ambitious engineer with practical hands-on construction, design, managerial control, renovation, and operation and strategy efficient implementation. I combine practical communication skills with detailed product knowledge to solve problems and achieve the required goal that best accommodates customer's needs, and effectively apply the recommended safety and quality standards set by the consultant, simultaneously. I can provide highly efficient prognostic solutions for distinct operations through several strategies. I am trustworthy to work either in a team or independently.

KEY ACHIEVEMENTS

- Successfully finished my required MBA thesis and its defence on time, this thesis demonstrates the efficient approach of applying the optimal preventive strategy on waterproofing assets at airports. I managed to conduct an effective automated prognostic strategy to interpret future outcomes and provide better operations and strategies that can best solve the defects before a dangerous failure arises and reduce the cost by several millions of dollars.
- Successfully managed to turn a massive loss of an engineering project to a successful and profitable one in just six months at MAC. This is due to the hard work with a team of labours, professionals, and dedicated engineers, while keeping the preferable client's needs and consultant's uncompromising quality and safety standards.
- Worked in a stochastic environment while maintaining the RHIA facility. I successfully implemented several maintenance approaches and planning. I successfully introduced a better data mining process to analyse the historical data and then apply the best maintenance strategy for the future based on such studies.

EDUCATION

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| • Lebanese American University | Graduation year: 2020 |
| Master's in Business and Administration (MBA) | CGPA: 3.87 |
| • Beirut Arab University | Graduation year: 2015 |
| Bachelor's in Civil & Environmental Engineering | CGPA: 2.54 |
| • Rawdah High School | Graduation year: 2010 |
| Lebanese Baccalaureate Part II, General Sciences | |

WORK EXPERIENCE/EMPLOYMENT HISTORY

1) Working as a maintenance and facility management engineer at Middle East Airport Services (MEAS). I handled all civil and architectural maintenance crews, provided the best transportation routes to the required task, proper control over equipment, and spare parts along with future planning given the stochastic environment (September 2017-present):

- Facility Name: Rafic Al-Hariri International Airport (RHIA) at Beirut, Lebanon, for public transportation.
- Consultant: Dar Al-Handasah (Shair and Partners).
- Workforce: handling a total of 40 technicians and labor.

- Scope of work: Supervision over both the preventative and corrective maintenance along with all new and additional work orders.
 - Facility specifications: The airport's main facility (C1) is a 5-story building (Lower, Ground, 1st, 2nd, and 3rd) that has a watchtower, apron, and three runways. It also has sister buildings that are directly related to the facility like the utility plant complex (C6), General Aviation for private jets (C4), MEA Training and Conference Centre, Cargo building, Water Tank-Pump Room (B1).
 - Abiding by Dar Al-Handasah's quality and safety standards and making sure to adequately follow the PMI (Project Maintenance Index) for the preventive maintenance tasks.
- 2) One year and a half at Modern Arab Construction Co. Ltd. (MAC) as a civil site engineer. I was responsible of the workers, equipment, materials, and inspections. I ensured retaining the best quality and safety measures (December 2015-July 2017):
- Project Name: Jazan Refinery and Terminal Project (JRTP) at Jazan Economic City-Jazan, Saudi Arabia
 - Main Contractor: TR (Technicas Reunidas)
 - Consultant: ARAMCO (Saudi Arabian Oil Company).
 - Contract Name and Worth: MAC handled two industrial buildings that are: EPC 10 Hydrocracker Unit (HCK) and EPC 11 Diesel Hydrotreater Plant (DHT) worth 70 million riyals.
 - Workforce: I was able to handle a total of 400 workers to achieve the scope required by MAC.
 - Scope of Work: Construction of 4 Industrial Buildings (2 Substations and 2 Process Interface Buildings.)
 - Building Specifications: Construction of a one-story 9 meters high industrial buildings supported by anti-seismic steel bars and solid 4000 psi concrete walls. Architectural finishing on the inside with gypsum boards, tiles, raised floors, and false ceilings, including roofs having an excellent architectural slope finishing with waterproofing done against heavy rains. Moreover, finally, a transformer yard for each EPC 10 and 11 connected to the buildings via cable trays.
 - Following ARAMCO Standards: Attaining the ARAMCO high standards to deliver excellent quality and safety regulations, so I learned very well of the documents submitted, steps taken, and safely working within ARAMCO projects.

TRAINING AND VOLUNTARY WORKS

- Project management internship program: conducted by Dr. Farnoosh Farzaneh and Dr. Mohamad Ali Moshly-Collaboration between Schemazone and Reach Academy in Toronto, Canada (December 2020)
- Advanced facility management training program: conducted by Dr. Shukri Habib–Order of Engineers and Architects in Beirut (September 2019)
- Volunteer in the FIBA tournament–Nouhad Nawfal Stadium in Beirut Lebanon (August 2017)
- 80 days training with ACW Contracting Company: assigned on the LIV apartments construction project – Al Saifi, Lebanon (August 2014)
- 30 days Advanced ETABS Extensive Training Course: conducted by Dr. Yehya Tamsah – BAU (January 2014)

- 23 days training with MAC Construction Company: assigned on the renovation of King Abdul-Aziz Air Base – Al-Khobar, Saudi Arabia (August 2013)
- Advanced 3d AutoCAD training with Dr. Ahmed Attieh (April 2011)

CORE SKILLS AND EXPERIENCE

- Efficient and effective strategy implementation for prognostic simulation to achieve the best preventive maintenance strategies that perceive the overall objective of the facility.
- Significant experience in handling maintenance groups when it comes to the crew and routing scheduling, and maintenance activities.
- Good experience in introducing plans and organizing tasks exceptionally efficient in stochastic and uncertain environments.
- Coordinating with both the customer and the consultant to deliver customer happiness with high quality and safety standards simultaneously.
- Maintaining good public relations to help with the maintenance operation.
- Learned the real value of a proper coordinating system in handling maintenance tasks and change orders.
- Earned good experience in demolishing and preparation for new work areas.
- Earned good experience in fire-rated, glazed, and non-fire rated doors and hardware sets.
- Excellent experience with double glazed fully tempered glass panels maintenance.
- Great experience with EPDM waterproofing membrane and accessories. (adhesive sheet-based waterproofing and accessories)
- Renovation of public offices and facilities.
- Significant experience in handling concrete works of walls, roof slabs, staircases, ramps with slopes, transformer foundations and firewalls, and parapets for the waterproofing
- Metal frame blast-proof doors placement before concrete and welding.
- Good experience in anti-acid and fireproof architectural and non-architectural paint buried under sand using a spray, roller, or brush, including touch-up paint for doors and cabinet supports.
- Good experience in drywalls: gypsum boards with all their accessories.
- Working on block walls including the cement, grouting, and lintel beams casting over doors and openings.
- Good experience in architectural tiles, including their cement and grout.
- Good experience in surface preparation before painting inside and outside buildings with vast knowledge regarding the materials that should be used to achieve an excellent finish.
- Screed finishing with sloping pouring before waterproofing and tiles work.
- Sealant application for all types of joints (construction, contraction, and expansion).
- Handling epoxy coated steel and formwork.
- Very confident when it comes to reading plans and drawings.
- Working with the HVAC and Electrical engineers to solve problems.
- Extensive experience in handling heavy equipment.

- IT Skills: Microsoft Office: Word, Excel, PowerPoint, Outlook, R script, and R studio for future simulation and statistics, SPSS statistical program, and AutoCAD 2D and 3D.
- Proper construction and managerial experience.
- Design and supervision of residential building foundation, walls, columns, and concrete floor slabs at LIV apartments.
- Acquired great experience in the renovation and reconstruction of offices, roads, and buildings at Abdul-Aziz Air Base.
- Language Skills: Arabic: native speaker; English: fluent speaker.

INTERESTS AND HOBBIES

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| • Football | • Swimming | • Solving Puzzles |
| • Ping Pong | • Reading | |
| • Basketball | • Writing and typing | |