

Milad Sleiman Azzam

MEP Design Manager | BIM Manager

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Summary

A dedicated and proficient Mechanical Engineer & BIM Manager with 16+ years of experience in the AEC industry. Proven record of developing mechanical system designs, providing technical support to clients, and supervising the team that handles mechanical engineering related products. Seeking to work in an environment that is conducive to my intellectual, professional, and personal growth, where I can contribute significantly to the growth of the team/organization with strong experience and expertise leading to success.

Experience

MEP office manager – 09/2023 to 01/2025

GEMS Lebanon Office, Hazmieh, Lebanon

- Developing and implementing administrative and technical systems
- Manage the entire design & Shop-drawing process for all MEP and utilities services.
- Organizing office operations, procedures, Budgeting, Staffing Supervising, Developing workflows & Standards.
- Collaborate closely with architect & civil engineers, clients, contractors, and stakeholders to fully understand project requirements.
- Ensure smooth coordination with internal and external design teams to ensure the delivery of high-quality design documents and drawings
- Efficiently manage and maintain meticulous project documentation, including design records, change orders, and necessary approvals.
- Oversee and manage all project interfaces within the delivery program.
- Prepare and present design reports, presentations, and recommendations to stakeholders.

Mechanical Design Manager & BIM Manager – 07/2022 to 09/2023

Proquest Engineering & Consulting Offshore, Beirut, Lebanon

- Managed the preparation and review of mechanical design calculations, drawings, material take-off, diagrams, specifications, and tender documents for the design projects while preparing BEP plan, clash detection matrix, 4D simulations for construction sequencing and risk analysis
- Reviewed the work done by the mechanical team and followed up the coordination with other disciplines including civil, electrical and architectural trades
- Review documentation files including sheets and schedules, model visual checks, and parametric designs while coordinating, monitoring and supporting the mechanical design team

Mechanical Design Manager & BIM Specialist – 10/2019 to 06/2022

Technorm Lebanon, Beirut, Lebanon

- Was responsible for the design and execution documents of electromechanical tasks for high standing projects in Gulf Countries, Nigeria, & Lebanon while preparing Design Basis report for mechanical disciplines
- Managed and coordinated the overall BIM Implementation within the Building Services Discipline team and supported multidisciplinary project delivery
- Manage and led preliminary and detailed design of various type of MEP Projects (HAVC, Water Supply, drainage, Gas, Medical Gases, and fire protection while managing MEP Revit modeling following required LOD and BEP
- Led the implementation of the BIM Standards (ISO19650, IFC, COBie), Modelling workflow & methodologies during the design process
- Assisted in the creation of BIM deliverables, Clash Detection Processes, and Reports, BIM Quality Control Plans, and BIM Design Review Procedures
- Configured and maintained the project Common Data Environment (CDE)
- Manage the projects BIM Coordinator and BIM / CAD technicians including input to Quality Assurance and Quality Control of models and drawings and other related BIM deliverables
- Coordinated BIM issues with design teams and support the resolution actions and monitor their implementation into the BIM authoring environment
- Led BIM applications including 4D,6D and 7D, and O&M programs into the BIM models
- Led the resource management and tasks assignment within the BIM Authoring and Coordination Team
- Provided technical support and troubleshooting for escalated software functionality issues

Senior Mechanical Design Engineer & BIM Coordinator –04/2010 to 10/ 2019

Proquest ME Offshore, Beirut, Lebanon

- Designed mechanical and plumbing systems that meet the specific needs and requirements of a building. Analyzed the building's layout and purpose to determine the most appropriate system design
- Performed heating and cooling loads calculations required for the HVAC systems
- Validated design issues related to MEP and suggest alternative solutions and ensured that design complies with relevant building codes, safety standards, and regulations
- Performed water supply and drainage calculations as per required standards. Generated firefighting reports and hydraulic calculations using elite software
- Performed equipment selection for HVAC units, pumps, generators, and other mechanical equipment's, etc.
- Coordinate with architects, structural engineers, and other professionals to ensure that their systems integrate seamlessly with the overall building design and structure
- Ensured that designed systems are energy-efficient and environmentally friendly and follow the required Energy Efficiency and Sustainability requirements
- Conducted testing and commissioning to ensure that all systems function as per design and meet the performance standards
- Troubleshooted and Problem-solving of MEP system failures or issues. Managed the Mechanical design time and ensure key deliverables are achieved
- Designed Wastewater treatment plants

Testing & Commissioning Engineer – 09/2014 to 11/2014

VINCI, Dushanbe, Tajikistan

- Was responsible for testing mechanical systems, creating and carrying out test procedures while ensuring that equipment and mechanical systems were installed according to project specifications
- Conducted site observation surveys and prepared field reports on the status of projects and completion of projects with respect to compliance to the plans and specifications
- Understood the requirements for performance testing of systems/equipment and ensured that the performances were matching the project documents
- Participated in regularly scheduled construction and commissioning progress meetings while reviewing vendor drawings, calculations, startup procedures and other vendor documentations

Mechanical Site Engineer Infrastructure – 09/2011 to 02/2012

QD-SBG Construction, Doha, Qatar

- Prepared Utilities Method Statement (Q-Tel duct bank installation, ductile Iron Pipe, HDPE Pipes) while developing scope of work and shop drawings for utilities
- Assisted in reviewing of shop drawings, design proposals, method statements and other related activities while ensuring that safety goals were achieved on the project and overseeing implementation of safety procedures on the project

Mechanical Design Engineer –2008 to 2010

Saudi Technical Limited, Beirut, Lebanon

- HVAC Shop Drawings, Cooling and heating Load Calculations, Equipment selection & Sound Attenuation.

Education

Politecnico Di Milano – Master's in BIM management in construction works

Italy, 2023 - Present

Lebanese International University - Master's degree, Mechanical Engineering

Lebanon, 2007 - 2009

Lebanese International University - Bachelor's degree, Mechanical Engineering

Lebanon, 2003 - 2007

Projects

- CEER Automotive Manufacture -KSA
- Jeddah Central Oceanarium - KSA
- Red Sea Global, Shura Island, Program 6 - Hotel West 1 & Hotel West 2 - KSA
- Red Sea Global, Shura Island's Infrastructure & Utilities Package - KSA
- Saudi Entertainment Ventures - Seven Makkah - KSA
- Saudi Entertainment Ventures - Seven Abha - KSA
- King Salman Airbase -60,000m2 - (Setsintl-BSSJV, Consultant: Dar Handasah) - KSA
- Shams Al-Riyadh, Mock-Up Villa A & Villa B (Setsintl-Dar Arkan) - KSA
- BYALESA – 203MVA Power generation Plant (AGIP Petroleum)
- Sinjar French Medical Center (Chaine de l'espoir) - Iraq
- Marina Riviera Tower (Bouygues – Buro Happold) - Greece
- Dépôts Metro Abidjan Ligne 1 (Bouygues Bâtiment) - Cote d'Ivoire

- Manazil Qarn Al Alam - Petroleum Development (Bouygues) - Oman
- Notional Research Oncology Center - Astana Kazakhstan - 60000 m2: Nazarbayev University - Kazakhstan and UPMC University of Pittsburgh Medical Center-USA (VINCI Construction-University of Pittsburgh)
- Centre Hospitalier Universitaire de reference d'Abomey Calavi – Benin (Bouygues - Egis)
- University College London Hospitals (Bouygues Construction)
- Rénovation du palais Maslakhat Achgabat (Bouygues Bâtiment) - Turkménistan
- Complexe de Garde Achgabat (Bouygues Bâtiment) - Turkménistan
- Plateforme Logistique la Cava- Abidjan (Bouygues Bâtiment) - Cote d'Ivoire
- University Hospital Center at Yopougon (Bouygues Bâtiment) - Abidjan, Ivory Coast
- Nouvelle Tribune Gouvernementale du Turkménistan 25000 m2 - (Bouygues Bâtiment)
- Banque Commerciale d'état du Turkménistan 15000 m2 - (Bouygues Bâtiment)
- Centre de réceptions de l'appareil du Turkménistan - 22000 m2 (Bouygues Bâtiment)
- Centre des Conférences Internationales -18000m2 (Bouygues Bâtiment) - Turkménistan
- Centre de Réception International-47000m2 (Bouygues Bâtiment) - Turkménistan
- Central Asian Institute of Ecological Research Almaty (Bouygues Construction) - Kazakhstan
- Brascuba Cigarrillos Nova Fabrica (Bouygues International)- Cuba
- Projet casa ANFA, Casablanca (Bouygues Construction) - Morocco
- Battersea Power Station Phase 3 (Bouygues UK) - London
- Royal Mansour hotel Marrakech (Bouygues Construction) - Morocco
- Plateforme multi-temperatures Abidjan – Cote d'Ivoire (Bouygues Construction)
- Yves Saint Laurent Musée, Morocco (Bouygues Construction- BYMARO)
- Dushanbe International Airport (VINCI Construction)– Tajikistan
- Ivory Coast embassy in Nigeria (Bouygues Construction) - Nigeria
- Chinchero International Airport (VINCI Construction) - Cusco
- Cabinet Des Ministers CAB in Turkmenistan - 40000m2 (VINCI Construction)
- SDI Khalifa Industrial City - 420 Hectares (Libya Government / MSH Construction-France)
- Al-Aziziah Industrial City - 365 hectares (Libya Government / MSH Construction-France)
- Hall Bank HBK (Bouygues Bâtiment) - Turkmenistan
- Dukhan Road East Contract (QD_SBG) - Qatar
- PNU Princes Nora University Buildings 1.5.0, 3.4.0 & 3.2.0 (OGER) - KSA
- Yamama Palace in Riyadh Buildings 7071-7080-7081(OGER International) - KSA

Memberships

Member in Order of Engineers of Beirut 35139

Member in Saudi Council of Engineering 933241

Skills & Expertise

- Ms Office (Word, Excel, Powerpoint)
- Navisworks, Revit MEP (Autodesk Certificate), Civil 3D, Bexel, Dynamo.
- Drawing software: AutoCAD (2D), AutoFluid
- Structural Software: Tekla, Revit
- Architectural Software: ALLplan, Revit
- Mechanical Software: ClimaWin, HAP, Elite Fire, Pipe Flow Expert, DDS.
- Codes and Norms: QCS 2007, NFPA, ASHREA, SMACNA, BS, IPC, SNIP, SBC, NFS, CIBSE

Languages

Arabic: Native | **English:** Fluent | **French:** Intermediate