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OBJECTIVE

Accomplished Mechanical Engineer and Site Manager with over 30 years of specialized experience in the sugar industry, having led the design, erection, commissioning, and operation of sugar factories across Egypt, Iran, Iraq, and Tunisia. Proven ability to manage complex industrial projects from concept to startup, including piping systems, sugar processing equipment, and complete mechanical infrastructures. Seeking to contribute this deep technical expertise and international experience to high-impact sugar industry projects in design, construction, or operational leadership roles.

EXPERIENCE

Principal piping engineer | Engineering Consultants Group(ECG) | 2023-present

MEP manager at ZED residential project | Engineering Consultants Group(ECG) | 2021-2023

Project Technical Manager | Sinoma-CDI – Canal Beet Sugar Factory | 2019-2020

- Managed technical coordination and oversight for one of the Middle East's largest sugar production plants, under Chinese contractor SINOMA.
- Led technical review of design documents, piping layouts, and mechanical systems prior to and during implementation.
- Acted as the main technical interface between Chinese engineering teams and local subcontractors.
- Supported construction, testing, and pre-commissioning activities across mechanical and utility systems.

Site Project Manager / Mechanical Engineer | ECG – Alnouran Beet Sugar Factory, Egypt | 2016-2019

- Initially joined the mechanical engineering team overseeing installation and commissioning of mechanical systems.
- Promoted to Site Project Manager, leading day-to-day site operations, coordinating with contractors, and ensuring project milestones were met.
- Supervised mechanical works including piping systems, sugar process equipment, and integration across factory units.
- Oversaw and organized subcontract agreements; monitored contract execution and ensured compliance before approving contractor payments.
- Collaborated with engineers and planners to ensure optimal workflow and space utilization in healthcare facility designs.

Mechanical / Piping Manager | BMA-MENA (International Sugar Industry Contractor) | 2014-2016

- Assigned to key sugar refinery projects in the Middle East and North Africa, handling piping systems and mechanical works from installation to commissioning. Roles included technical supervision, contractor coordination, and on-site execution.
- **Piping Manager – Etihad Sugar Refinery, Iraq | 2014-2015**
 - Managed all on-site piping activities including fabrication, installation, and hydrotesting for process and utility lines.
 - Reviewed and approved piping layouts, isometrics, and welding procedures as per international codes.
 - Coordinated with project stakeholders to ensure smooth integration of piping systems with civil and mechanical infrastructure.
 - Oversaw subcontractors and ensured high-quality execution in line with project specifications
- **Mechanical Team Member – Bizerte Sugar Refinery Rehabilitation, Tunisia | 2015-2016**
 - Participated in the rehabilitation and mechanical refurbishment of the Bizerte Sugar Refinery.
 - Provided technical input during re-installation of equipment and mechanical systems.
 - Supported testing and re-commissioning processes to restore refinery operations.

Senior Mechanical Engineer / Site Manager | Egyptian Sugar Co. | 1992-2014

- Held multiple technical and leadership roles over 22 years, contributing to the design, erection, commissioning, and operation of numerous sugar factories in Egypt and Iran. Gained extensive site management experience, overseeing mechanical works including piping, pumps, conveyors, and sugar processing equipment. Worked closely with local and multinational teams and contractors, ensuring smooth coordination and execution of project phases. Collaborated with multidisciplinary stakeholders and government entities to deliver large-scale turnkey projects on time and within budget.
- **ESIIC EXECUTION Site manager - Alexandria beet sugar factory (savola), Egypt | 2012-2014**
 - Led all on-site mechanical works for the construction and commissioning of the sugar processing facility.
 - Designed and executed piping systems, including layout, routing, material selection, and installation supervision.
 - Supervised installation of pumps, conveyors, and mechanical equipment, ensuring alignment with engineering standards.
 - Coordinated daily activities with contractors, consultants, and suppliers to maintain workflow and quality.
- **Mechanical Design & ESIIC EXECUTION Site manager - Dakahlia beet sugar factory 2nd line , Egypt | 2009-2012**
 - Contributed to the mechanical and piping design review for the second production line, including equipment layout and interconnection plans.
 - Oversaw the execution of the second production line, managing site operations from mechanical design handover to commissioning.
 - Reviewed and followed up on designs received from contractors, ensuring technical accuracy and feasibility.
 - Supervised the local execution teams during installation of processing units, piping, and structural supports.
 - Liaised with internal departments and subcontractors to ensure project milestones and contractual terms were achieved.
- **Mechanical Design & Site Engineer - Nubaria beet sugar factory, Egypt | 2004-2008**
 - Participated in the basic engineering and mechanical design phase, including equipment selection, piping layout, and plant configuration.
 - Prepared and reviewed detailed mechanical and piping drawings using AutoCAD and related tools.
 - Supervised the full installation of **piping systems**, pumps, and sugar processing equipment during the execution phase.
 - Oversaw site works and coordinated with contractors to ensure mechanical installations followed approved designs and project specifications.
- **Piping & Mechanical Engineer - Merzia Kochak Khan Raw Sugar Factory, Iran | 2002-2004**
 - Participated in the on-site mechanical execution of the factory, focusing on piping systems and equipment installation.
 - Supervised fabrication and erection of process pipelines, supports, and valves according to design specifications.
 - Assisted in alignment and installation of pumps, heat exchangers, and sugar processing machinery.
 - Coordinated with civil and structural teams to ensure proper integration of mechanical systems.
- **Piping & Mechanical Engineer - Amir Kabir Refinery Sugar Factory, Iran | 2000-2002**
 - Performed mechanical and piping works during the erection of a major sugar refinery plant.
 - Supervised the installation of piping networks, including layout execution and mechanical supports.

- Participated in the installation and alignment of refinery equipment such as tanks, pumps, and piping manifolds.
- Ensured compliance with engineering drawings and specifications during site execution.
- Collaborated with international contractors and technical teams for successful project delivery.

- Piping & Mechanical Engineer – Amir Kabir Raw Sugar Factory, Iran | 1999-2000

- Executed piping and mechanical installation works for the raw sugar processing plant.
- Oversaw on-site fabrication and erection of pipelines, valves, tanks, and mechanical supports.
- Supported installation of major equipment such as conveyors, pumps, **process tanks**, and pressure vessels.
- Verified construction activities against approved engineering drawings and standards.
- Ensured timely coordination with other site teams to maintain smooth progress during erection.

- Mechanical & Piping Design Engineer - Two Refinery Sugar Factories (Amir Kabir & Salman Farsi), Iran | 1997-1999

- Participated in basic engineering and design initiatives for two major sugar refinery plants.
- Developed mechanical layouts and piping designs, including conveyors, process and storage tanks, and sugar processing equipment.
- Defined material specifications and coordinated equipment selection with process engineering teams.
- Ensured mechanical systems integration with civil/structural plant designs.

- Mechanical & Piping Design Engineer – Five Raw Sugar Factories (Sheibh, Amir Kabir, Debel Kozai, Merza Kochak Khan, Soliman Farsi), Iran | 1993-1997

- Participated in the basic engineering design of five raw sugar factories in Iran as part of ESIIC's international expansion.
- Developed layouts and technical drawings for mechanical systems, including piping, conveyors, tanks, and sugar processing equipment.
- Contributed to material selection, equipment sizing, and overall plant configuration in coordination with process engineers.
- Ensured integration between mechanical and civil/structural designs to facilitate smooth execution during construction phase.
- Provided technical documentation and supported pre-construction planning for overseas fabrication and installation.

- Mechanical Design & Site Engineer - Nag Hammadi Raw Sugar Factory, Egypt | 1992-1993

- Participated in both basic engineering design and on-site execution of mechanical systems at Nag Hammadi sugar facility.
- Designed mechanical layouts, piping networks, conveyors, and process tanks using AutoCAD, AutoPlant, and stress analysis tools.
- Supervised implementation of mechanical works on site, including installation of pipelines, tanks, and conveyors.
- Ensured alignment between design documentation and execution, resolving site issues through direct coordination with the design office.
- Supported equipment alignment, testing, and commissioning preparations.

Mechanical Engineer | Armed Forces of Egypt | 1990-1992

- Responsible for the operation and maintenance of existing water desalination systems using steam condensate technology.
- Performed regular inspections, preventive maintenance, and troubleshooting of pumps, pipelines, filters, and mechanical control systems.
- Ensured continuous and efficient plant performance in compliance with military engineering standards.
- Gained foundational experience in mechanical systems through work in a high-discipline, mission-critical environment.

KEY INDUSTRIAL PROJECTS

1. Canal Beet Sugar Factory, Egypt, 2019-2020
2. AL-Nouran Beet Sugar Factory, Egypt, 2016-2019
3. Etihad Refinery Sugar Factory, Iraq, 2014-2015
4. Alexandria Beet Sugar Factory (SAVOLA), Egypt, 2012-2014
5. Dakahlia Beet Sugar Factory, Egypt, 2009-2012
6. Nubaria Beet Sugar Factory, Egypt, 2004-2008
7. Merzia Kochak Khan Raw Sugar Factory, Iran, 2002-2004
8. Amir Kabir Refinery Sugar Factory, Iran, 2000-2001
9. Amir Kabir Raw Sugar Factory, Iran, 1999-2000
10. Nag Hammadi Raw Sugar Factory, Egypt, 1992-1993

Planned & Designed Sugar Projects (Not Executed)

Prepared complete technical documentation and mechanical design packages for several sugar industry projects that were not executed due to external factors (investment, approvals, etc.). Designs included layout planning, piping systems, equipment selection, and integration planning.

1. Beet Sugar Factory – Port Said, Egypt
2. Refinery Sugar Factory – Iraq
3. Sugarcane & Beet Combined Factory – Toshka, Egypt
4. Beet Sugar Factory – El-Dabaa, Egypt (*Currently under feasibility study*)

Technical Skills

- **Mechanical Design & Engineering Leadership:** Oversaw the design and review of sugar factory mechanical systems and layouts, including equipment, pipelines, interconnections, and general plant configurations.
- **Design Review & Approval:** Experienced in reviewing and approving mechanical designs submitted by internal and external teams, ensuring compliance with project specifications and engineering standards.
- **Project Planning & Progress Monitoring:** Skilled in preparing and following up on detailed project execution plans, tracking milestones, and generating progress reports for senior management.
- **Tendering & Offer Evaluation:** Managed the preparation of both local and international tender documents; led the technical and financial evaluation of supplier and contractor offers.
- **Basic & Detailed Engineering Supervision:** Coordinated the development of basic engineering documents and supervised detailed engineering phases to ensure design completeness and feasibility.
- **Interconnection & Utility Planning:** Designed and reviewed interconnections between plant stations, ensuring proper integration and utility balance across factory units.
- **Local & International Manufacturing Oversight:** Followed up on fabrication and assembly activities at workshops and on-site to guarantee timely and high-quality mechanical component delivery.

- **Multidisciplinary Project Coordination:** Coordinated with civil, electrical, and instrumentation teams to align mechanical systems with all other disciplines.
- **Sugar Industry Construction:** Managed full construction cycles for sugar factories, from design through mechanical completion and startup.
- **Team & Contractor Management:** Supervised local and multinational teams, monitored contractor performance, and ensured full compliance with contract scope and timelines.

EDUCATION

Menoufia University(Shebin ELkom) - Faculty of Engineering | Class of 1989

- B.Sc. in Mechanical Power Engineering.

LANGUAGES

- Arabic: Native
- English: Professional working proficiency (Able to read technical documents, write reports, and communicate effectively in engineering contexts)