

Mariem Hassan Amin

Design Manager & Technical Coordinator for infrastructure
/Wet Utilities

Professional Experience

18 years



Nationality

- Egyptian

Marital status

- single

Religion

- Muslim

Address

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Nasr City

Contact

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Education

- 2003: Bachelor of Civil Engineering(Geomatics) -
Faculty of Engineering – Banha University.
General rate of appreciation: Good
Fourth year Appreciation: Very Good
Graduation Project Appreciation: Distinction

Membership

- Egyptian Syndicate of Engineers

Coarses

- Project Management Professional (PMP)
Exam Preparation Coarse (AmidEast
Academy)
- Managing Projects for Executives(Introduction
to Project Management &Organizational
Excellence) at APM Academy.
- On-Site Risk Management ISO 31000
Foundation Training (SGS Academy)

Key Qualifications

Civil Engineer with 18 years of experience in the infrastructure/Wet Utilities, hydrology, hydraulic and environment projects located in Egypt, Saudi Arabia, Libya, Yemen, Oman ,UAE and Qatar.

Competency

- Lead one or more design teams during design delivery
- Review selected design options into schematic and draft final designs, including all required drawings and reports
- Coordinate design requirements across disciplines for water supply projects of high complexity across all design stages (conceptual, schematic, detailed)
- implementing quality control and quality assurance policies and procedures on design deliverables and conduct peer review on team members' deliverables
- BIM Modeling For Wet Utilities with Civil 3d & clash Detection using Navis Work & InfraWizard.

Computer Skills

- Water gems, Sewer gems, Storm cad
- civil storm, Hyfran,wms& Info work CS
- AutoCAD, civil 3d, ARC GIS, Navis work
- MS office ,Primavera 6,infrawizard

personal skills

- Self Motivated, Responsible & Results Oriented.
- Co-operative, Flexible, and Can Work in a Team.
- Able to Work Under Pressure and Eager to
Communicate With Different Levels and Excellent
- Public Relation and Contacting With People.

Experience Record

- **Current Job: AL-RAWAF COMPANY FOR TRADING & CONTRACTING. -SAUDI ARABIA**

Role: Acting Director technical Office

Duties:

- Management of the Working Drawings Departments.
- Assign responsibilities to meet the project delivery time lines
- Reviewing Design documentation at all various phases, Review and forward any comments on all
- Ensuring timely coordination with multidiscipline project teams.
- Ensuring that client requirements are met within company standards and project delivery guidelines

Key Projects:

- Alsafwa Qatif Eastern Province - Kingdom of Saudi Arabia
- Water Transmission Pipeline From MAGNA BPT to MAGNA Reservoir—Neom-Kingdom of Saudi Arabia
- Jeddah 3 Industrial and Business City Project
- **2022-Part time: Fouad Al-Saleh & Khaled Al-Dhowalia Environmental & Engineering Consultants (FKEC)(cairo-branch**

Role: infrastructure section head—wet utilities

Key Projects:

- **TSE Supply For Green Riyadh Program**
- Owner/ Royal Commission for Riyadh City “RCRC” ,Saudi Arabia)

Duties:

Lead the design team for preparing detailed designs and tender documents of TSE system (Irrigation networks, Transmission lines, and pump Stations)based on the design manual and approved standard .

- **2021:2022: AL-RAWAF COMPANY FOR TRADING & CONTRACTING.**

Role: Senior Project Engineer—wet utilities

Key Projects:

- **Madinah &Makkah Regions Sites(Jeddah- Abhor)**
(Owner/National Housing Company ,Saudi Arabia)
- **Completion of infrastructure works for 2nd Qassim industrial city**
(Owner/Saudi authority for industrial cities & technology zones ,Saudi Arabia)
- **Implementation works for the comprehensive infrastructure of the South Riyadh Project - Al Shefa project**
(Owner/National Housing Company ,Saudi Arabia)

Duties:

- Participate in preparing Shop Drawings& as built documents of foul sewerage system, irrigation, Surface water drainage & water supply system based on the design manual and approved standards.
- Identify any problems, determine appropriate technical solutions and assure corrective action is taken.
- Hydraulic modeling for the above networks.
- Quantity surveyor for all utilities.
- Calculation of extractor report for sub contractors for all utilities.
- **2019:2021 Free lancer (wet utilities)**

Key Projects:

Kafr El-Sheikh Wastewater Development (for Villages in Zaghlool Al Bahary WWTP Cluster -MOTOBES District) Chemonics Company ,Cairo (Egypt)

Duties:

- Lead the design team for preparing detailed designs and tender documents of foul sewer system (Sewerage networks, Forcemains, and pump Stations)based on the design manual and approved standard .

Water purification plant (NCWPP) (ABU OWEIKAL) Project ,Nasr City –Hydro. Envir& Infra Str. Studies Company

OWNER: MINISTRY OF HOUSING, UTILITIES & URBAN COMMUNITIES , The Construction Authority for Potable Water &Waste Water (CAPW)

- Participate in preparing Shop Drawings, as built documents based on the design manual and approved standards.
- Identify any problems, determine appropriate technical solutions and assure corrective action is taken.

Sewage connection for urban expansion Suez Road and West Ring Road Project -Hydro. Envir& Infra Str. Studies \ Company .

- Preparing tender documents of foul sewer system (Sewerage networks) , based on the design manual .

- **2013—2018: Khatib & Alami, Cairo (Egypt)**

Role: Senior Project Engineer—Water & Wastewater

Key Projects:

- **Roads and Infrastructure in Al Egda, Al Heedan, and Al Khor (MMUP—Phase 3/Package 24(QN005)), Qatar North.**

The scope of work is designing, construction roads and infrastructure improvements for 287 Hectares, incorporating

Residential, commercial, industrial and Government, plots, in addition to Schools, Mosques, clubs and health center. Also regulate Traffic Movements and Parking, provision of Foul networks, Irrigation networks, utility corridors including (water, Electrical and telecommunication networks) and Surface Water Drainage. In addition to improved pedestrian, Traffic Safety, streetscape and urban environment.

Role : Senior Project Engineer

Duties:

- Participate in preparing conceptual, preliminary, detailed designs and tender documents of foul sewerage system based on the design manual and approved standards.
 - Technical revision of treated sewage effluent irrigation system, Surface Water Drainage. ,utility corridors reservation planning and associated utilities relocation works.
 - Identify any problems, determine appropriate technical solutions with the design team and assure corrective action is taken.
 - Hydraulic modeling for wastewater networks using Info works.
- **Design and Supervision Consultancy Services for Construction of Housing and Infrastructure for Three Emirati Neighborhoods – Al Wathba North New, Abu Dhabi ,UAE.**
- **Client :Abu Dhabi General Services Company “Musanaa”**

The scope of work covering the broad components of wet utilities necessary for the development, the detailed design works of the following networks : Sewerage Network ,Storm Drainage Network ,Potable Water and Fire Fighting Network &Irrigation Network .

Role : Senior Project Engineer

Duties:

- Participate in detailed designs of foul sewerage system based on the design manual and approved standards.
 - Technical revision of treated sewage effluent irrigation system, Surface Water Drainage. ,utility corridors reservation planning and associated utilities relocation works.
 - Identify any problems, determine appropriate technical solutions with the design team and assure corrective action is taken.
 - Hydraulic modeling for wastewater networks .
- **Roads and Infrastructure in Leghwairiya Village and Access Roads (QN070), Qatar North**

The scope of work is designing, construction roads and infrastructure improvements for 250 Hectares, incorporating Residential, commercial, industrial and Government, plots, in addition to Schools, Mosques, clubs and health Centre. Also regulation of Traffic Movements and Parking, provision of Foul networks, Irrigation networks, utility corridors including (water, Electrical and telecommunication networks) and Surface Water Drainage.

In addition to improved pedestrian, Traffic Safety, streetscape and urban environment.

Role: Senior Project Engineer

Duties:

- Lead the design team for Preparing detailed drawings (plans, profiles & details) for foul sewerage system , Irrigation networks based on the design manual and approved standards.
- Hydraulic modeling for wastewater networks using Info works.

▪**Development of Roads and Infrastructure in Al KHOR Town PHASE-2. (QN066)—Qatar North.**

The scope of work is designing, construction roads and infrastructure improvements for 1437 Hectares, incorporating Residential, commercial, industrial and Government, plots, in addition to Schools, Mosques, clubs and health center, Expansion and improvement of the existing wastewater networks, in addition to serving the deprived areas within the city’s boundaries. Also regulate Traffic Movements and Parking, provision of Foul networks, Irrigation networks, utility corridors including (water, Electrical and telecommunication networks) and Surface Water Drainage.

In addition to improved pedestrian, Traffic Safety, streetscape and urban environment.

Role: Senior Project Engineer

Duties:

- Participate in preparing conceptual and preliminary documents of foul sewerage system and Surface Water Drainage. based on the design manual and approved standards.
 - Technical revision of treated sewage effluent irrigation system, utility corridors reservation planning and associated utilities relocation works.
 - Identify any problems, determine appropriate technical solutions with the design team and assure corrective action is taken.
 - Hydraulic modeling for wastewater networks using Info works.
- **SARAI Project (located at km 45 Cairo Suez Road) , Egypt**
- The project area is approximately (1312.5 Fadden) located at km 45 Cairo Suez Road, The scope of work is designing and studies for water supply ,irrigation & foul sewerage system of the Residential Compound for SARAI.

Role: Senior Project Engineer

Duties:

•Lead the design team for Preparing conceptual and detailed documents of foul sewerage (combined system) ,irrigation & water supply system based on the design manual and approved standards.

•Technical revision &Identify any problems, determine appropriate technical solutions with the design team and assure corrective action is taken.

▪**Light rail train (LRT) 10TH of Ramadan railway project**

10th of Ramadan LRT Project has a total length of 65.60km, with 11 stations.) from El Salam (Adly Mansour Station – the last station of Greater Cairo Metro Line 3 Phase 4 along Cairo –Ismalia desert road up Badr station then it goes in two branches, the first branch northward to 10th of Ramadan City and the second southward to the New-Governmental Capital.

Role: Technical coordinator for LRT project

Duties:

- Close liaison with contractors (AVEC&CREEC)
- Conducting Design approvals.
 - Support production teams ensuring deadlines are met and projects are delivered on time and within budget
 - Technical revision and quality assurance.
 - Preparing Working Plans and documents' control.
 - Managing correspondences and technical controversies.
 - Preparing utilities' coordination

▪ **Water Supply Networks for East Abha, KSA**

Design and studies for water supply system of East Abha city in Asir region. This project serves 528,000 inhabitants, with a total area exceeding 190 km². The elevations difference is 450 m.

The project constituted of 38 km of transmission pipelines with diameter varies from 300 mm up to 1,000 mm, 9 concrete storage reservoirs and breaker tanks with capacity varies from 500 m³ up to 30,000 m³, 1,300 Km of distribution networks with diameter varying from 100 mm up to 400 mm.

Role: Project Engineer

Duties: Preparation of conceptual, final design and tender documents of East ABHA water supply networks including storage reservoirs and pressure break tanks based on the design manual and approved standards.

▪ **Wastewater & Irrigation Networks Performance Defects Evaluation Study for Haya Water – Sultanate of Oman - Muscat Area Bausher Contract B1-Azaiba & Ghubrah**

study the causes of some defects which reported during the system operation in the form of multiple pipelines failure incidents and gravity manholes collapse, address the whole scheme performance defects in the most comprehensive and impartial manner and provide the necessary mitigation measures

Role: Senior Project Engineer

Duties:

- Participate in preparing Data Collection Report and Performance Defects Study Report
- Identify any problems, determine appropriate technical solutions with the design team and assure corrective action is taken.

2013:

Senior Consulting Office, Cairo (Egypt)

Development of Roads and Infrastructure in 17 Sites Project (Ministry of Housing - Saudi Arabia)

The project scope is to Design of water supply ,irrigation,storm drainage &waste water systems for seventeen separate sites distributed in Riyadh, Tabuk, Qassim and Eastern Region .

Role: Senior Design Engineer

Duties:

- Hydraulic analysis, Preparing conceptual, preliminary Design of Water Supply, storm drainage and Foul sewerage Systems
- Review selected design options into schematic and draft final designs, including all required drawings and reports.

2009—2011:

Alex. Construction Company (Talaat Mostafa), Cairo (Egypt)

Development of Roads and Infrastructure in MADINATY City Project (B7 Sector (63 ha)) — Egypt

The project scope is to make Shop drawings& As built documents of (Roads,water, sewerage, storm and irrigation networks) &survey works for sector B7 in Madinaty City Project.

Role: Senior Technical Office Engineer

Duties:

- Study the project contract documents and prepare requests for information (RFIs) for all missing, unclear, conflicting or other technical matters that may arise during construction
- Manage the cost analysis and cost control of site activities &Take part in the project management review and risk management review
- Attend progress meetings, discussing and suggesting technical proposal
- Close liaison with client and concerned authorities.
- Data survey and assuring compliance with local and international standards.
- Shop drawings for (Roads, water, sewerage, storm and irrigation networks).
- Quantity surveyor for all utilities.

- Calculation of extractor report for client, contractor and inflation for all utilities.
- As built for field work

2008—2009:

Beeah Planners, Architects & Engineers, Cairo (Egypt)

Key Projects:

- **Project : Designs and schemes of basic facilities of the Duba industrial city**

Client name : Ministry of Commerce and Industry

- **Project : King Fahd University of Petroleum and Minerals, Dhahran - the science park**

Client name : King Fahd University of Petroleum and Minerals

- **Project : Transfer line Water Treatment From Jaroudia station to Qatif Farms**

Client name : Ministry of Agriculture

- **Project : Amwag land planning And infrastructure facilities**

Client name : Rikaz For Development

- **Project : Saudi Fund for Development in Umm Alhamam**

Client name : Saudi housing fund

- **Project : Taibah University - Yanbou**

Client name : Taibah University

- **Project : Prince Sulaiman Al Rajhi University**

Client name : Sulaiman Al Rajhi

- **Project : Majmaa University – University Restaurants**

Client name : Ministry of Higher Education - Majmaa University

- **Project : Preparation of local plans and detailed Khulais city**

Client name : Jeddah Municipality

- **Project : King Abdullah City for Atomic and Renewable Energy**

- **Project : The design of treatment plant of sewage and industrial wastewater in the industrial city**

Client name : Ministry of Water and Electricity

- **Project: planning the Al-Hara popular area Al-Mursalat neighborhood - Riyadh**

Role: Design Engineer wet utilities

Duties:

Hydraulic analysis, Preparing preliminary & detailed Design of Foul sewerage Systems

Review selected design options into schematic and draft final designs, including all required drawings and reports.

2007—2008:

Hamza Associates Consultants, Cairo (Egypt)

Key Projects:

- **Development The Master plan for Al-Korasah Forest — Libya**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Al-Korasah Forest (50 ha).

- **Development The Master plan for Tagoraa Forest — Libya**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Tagoraa Forest (80 ha) .

- **Development The Master plan for El Nasr Forest — Libya**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for El Nasr Forest (135 ha) .

- **Development The Master plan for Sedi El Masry (1and 2) Garden — Libya.**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Sedi El Masry (1and 2) Garden (130 ha) .

- **Development The Master plan for El Andalusia Tourist Village in Tagoraa — Libya.**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for El Andalusia Tourist Village (50 ha) .

- **Development of Infrastructure in SOHAR Airport—Oman.**

The project scope is to design Foul sewerage and water supply systems.

- **Development The Master plan for AL MAHA Tourist Village —Oman**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for AL Maha Tourist Village Area (500 ha) .

- **Development The Master plan for AIN EL SERA Tourist Resort —Egypt**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Ain El Sera resort Area (15 faddan) .

- **Development The Master plan for Horizon Sinai Tourist Village(Ras-Sudr)—Egypt**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Horizon Sinai VillageArea (1333 Fadden)

- **Master plan for the second phase of Jeddah city — Saudi Arabia**

The project scope is designing wastewater Master plan for the second phase of Jeddah city and its extensions till the year 2040 (60,000 ha). Along with the associated pumping station. The project is divided into 28 contracts for sewers of 200-1000 mm diameters and tunnels of 400-3000 mm diameters of total lengths 3000 km. Total Construction cost is 550 million \$.

▪ **Development The Master plan for AL Future city 1500 Fadden —Yemen.**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Future city (1500 Fadden) .

▪ **Development The Master plan for Free and industrial area in Aden—Yemen.**

The project scope is designing & Development the master plan, construction Roads and Infrastructure for Free and industrial area foul sewerage system and water supply system.

Role: Technical coordinator & Quality control

Duties:

- Support Project Managers on assigned projects and project related tasks; includes coordinating project meetings, updating project documentation and monitoring project deliverables.
- Update, manage and track schedules and estimates
- Support production teams ensuring deadlines are met and projects are delivered on time and within budget
- Technical revision, Status reporting and quality assurance. Status reporting
- Managing correspondences and technical controversies.

2005—2007:

GCUDC (Greater Cairo Utility Data Center), Cairo (Egypt)

Key Projects:

- **All utility projects (water, sanitation - gas - electricity - petroleum - telephones) that are planned and implemented in Cairo**

The objective is to supply the facilities, consultant offices and utility organizations with the accurate and integrated data (necessary maps) for planning infrastructure projects

- **Preparing Touristic map and Egyptian Geographic Network for Greater Cairo — Egypt,**
The project objective is to provide a Touristic map for Greater Cairo with seven Languages.
- **producing survey & digital maps for agricultural areas in Cairo Governorate.**
- **Surveying project for schools, hospitals and poultry farms to produce survey maps inside and outside Cairo to control bird and swine flu**
- **Detailed lifting and list of facilities for the airports in the Arab Republic of Egypt with 18 airports.**
- The project objective is Create a database for each airport according to its projection system, with an explanation of all the features inside each airport, for example (lanes - navigation signs - trams - roads).
- also Produce facilities maps for each airport with a scale of 1: 1000.
- Production of longitudinal and transverse sections of corridors that the field work monitored by nature

Role: Geomatics Engineer (GIS Department)

Duties:

- Create a database for all facilities and infrastructure elements (infrastructure and overhead), update this data and put it in an accurate survey form and on maps (digital and paper).
- Coordination between utilities bodies and companies, housing, road and bridges officials before starting any project.
- Preparing Touristic map for Greater Cairo with seven Languages and Egyptian Geographic Network (using ARC GIS) .
- Production of contour maps, longitudinal and cross-sectional maps and Calculating quantities of excavation and backfilling.

2005:

Quality Standards for Information & Technology Company, Cairo (Egypt)

Key Projects:

- **automate the in-kind registration (elsegel Elaine) project of agricultural lands in Egypt .**

The project objective is to provide Cadastral Information System & geographical database for The agricultural area in Egypt In cooperation with Egyptian Survey Authority.

Role: Geomatics Engineer

Duties: Digitizing and integrating cadastral maps and real estate sheets with the aim of creating a geographical database for the agricultural cadastral (using ARC GIS).