

CURRICULUM VITAE



1. Proposed position: Head Of Department & Expert in Sanitary & Environmental Engineering.

2. **Full names:** **Mahmoud Abdel-Shafy Elsheikh**
 3. **Date of birth:** 2/1/1963
 4. **Nationality:** Egyptian
 5. **Civil status:** Married
 6. **Education:**

<i>Institution</i>	
El-Menoufia University, Summit Council of Universities, Egypt	2011 Prof. studies in “Sanitary and Environmental Engineering”
South Carolina University, USA, sponsored by U.S.-Egypt Joint Board on Scientific and Technical Cooperation.	2006-2008 Post Doctoral study in “Industrial Wastewater treatment”
El-Menoufia University, Summit Council of Universities, Egypt	2005 Assoc. Prof. studies in “Sanitary and Environmental Engineering”
Seoul National University, Seoul, South Korea	2004 Post Doctoral study in “Water treatment and rainwater harvesting” sponsored by KOSEF
Technical research institute of Turkish Ministry of public works, Ankara Turkey.	2000 Post graduate courses in “Water Sediment transport technology” sponsored by UNISCO
Czech Technical University, Czech Republic.	1999 Ph.D. in Sanitary and Environmental Engineering, entitled “Changing water quality in water distribution system and its modeling”
El-Menoufia University, Egypt.	1991 M.Sc. in Sanitary Engineering entitled “Evaluation and Development of the Wastewater Treatment Plant Using Aqua-Life Unit”
, Ain Shams University, Egypt.	1986 B.Sc. in Civil Engineering, Public works Grade very good with honor degree, and excellent in project in Sanitary Engineering.

7. **Language skills:** mark 1 (worst) to 5 (best) for competence:

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
Arabic	mother tongue		
English	excellent	excellent	excellent
French	good	poor	poor
Czech	good	poor	good

8. **Membership of professional bodies:** Egyptian Engineering Consultant Association

9. **Other skills:** Member in Egyptian Water Association, Member in Association of Environment and Industry, Member in International Water Association (previous).

10. **Years within the firm:** 30 Years

11. **Work experience/ Key Qualifications:**

- Prof. Elsheikh has more than 30 years engineering experiences in academic, managerial and consultation works. He is a Consultant in the design of networks and treatments for water supply, Sanitation and environmental engineering. He has performed a lot of sanitary and environmental studies for his private Consultant Firm (DELTA Consult), El-Menoufia University, Water Supply and Sewage Disposal Egyptian Companies, Egyptian Governorates, Many Organization of the Egyptian ministry of housing and new communities; and also for many private consulting firms Arab Consulting Engineering (ACE Moharram-Bakhoum), Dr Ahmed Abdel-Wareth (AAW) Consulting Engineering, (Engineering Consultants Group (ECG), MISR Consult, PACER Consult, NILE Consult, etc.)
- **Relevant project for the Environmental Studies:**
 - ✓ Concept, Preliminary studies, design, and drawings of Solid waste management of 22 Regions for housing projects in Saudi Central Areas Sector for Saudi Ministry of Housing, for client: Zher Fayeze Consultant; for AAW consulting Firm.
 - ✓ Design, drawing, and specification of Sanitary Landfill near Sadat city including landfill cells, leaches collection and treatment, water supply and fighting fire networks and tanks, administration and other buildings for all cities of Gharbia Governorate, Tanta, Egypt.
 - ✓ Master plan for solid waste collection, transporting and disposal of nine villages at Shebin ElKom District –El Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.
 - ✓ Master plan design of water, wastewater and solid waste facilities of villages Elmay, Elbatanoon, Shora-Bas, Meleeg, Heset Meleeg, Shanawan, Elmoselha, Bakhaty, in Shebin Elkom, District Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.
 - ✓ Comprehensive Study for pollution of Agriculture drains from sewage and industrial wastewater disposal and the available alternatives of treatments pollution for National Water Research, Ministry of Irrigation and Public Works, Cairo, Egypt.
 - ✓ Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Elmehalla Elkobra city, Gharbia Governorate.
 - ✓ Participating in Preparing specifications of sanitary landfill of solid waste for Sharm El-Sheikh, South Sainaa Governorate.
 - ✓ Participating in Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Cairo and Gharbia Governorates and Ministry of Environmental.
 - ✓ Participating in Preparing the Egyptian code and standards for design, operation and maintenance of sanitary landfills.
 - ✓ Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Cairo and Gharbia Governorates and Ministry of Environmental.
 - ✓ Supervision of Industrial wastewater treatment plant for Tanta Soap and Oil Company (Two Factories).
 - ✓ Design, preparation tender, evaluation offers, selection contractor, and supervision of Industrial wastewater treatment plant to Bisco Misr company (Three Factories)

- ✓ Preparing of Environmental Impact Assessment (EIA) and primary design for Enterprises Incubators in El-Rahebein, El-Mehalla Elkobra District , Gharbia Governorate, Egypt.
- ✓ Design and supervision of water supply, sewerage, sewage and industrial wastewater works for Quena Newspaper printing company.
- ✓ Participating in Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Cairo and Gharbia Governorates.
- ✓ Pre-proposal assessment and Comprehensive Development with Emphasis on Solid Waste collection& disposal, water supply and Sanitation Project for villages of Abou Tig District -Assut Governorate, for Egyptian Swiss Development Fund, Cairo, Egypt.
- ✓ Pre-proposal assessment and Comprehensive Development with Emphasis on Solid Waste collection& disposal, and Sanitation Project for villages of Kotour & Bassyun District –Gharbeia Governorate, for Egyptian Swiss Development Fund, Cairo, Egypt.

12. Regional experience/Experiences in foreign countries:

<i>Country</i>	<i>Date from - Date to</i>
Saudi Arabia	10/2008 : 7/2013
South Carolina University USA	2006 : 2008 Visitors
Yemen	7/2005 Visitor
Seoul National University, S. Korea	2/2004 : 6/2004
Turkish technical research institute, Ankara Turkey	5/2000 :6/2000
Czech Republic	6/1996 : 5/1999

13. Professional experience records (projects):

Date from - Date to	Location	Company	Position	Project and Description of Activities, Financing Source
10/2014 : Now	Cairo-Egypt	Moharram-Bakhroum Arab Consulting Engineers (ACE)	Part time Consultant	<p>Head of Sanitary department at ACE Moharram-Bakhroum consulting Firm working Management, Technical Reviewer, Advisor and following technical problems of all sanitary works in the ACE firm.</p> <p>Technical Reviewer, Advisor and following technical problems of executing of Desalination Water Treatment Plant of 12,000 m³/day at Sdi Abdelrahman for Client NOPWAS –National Organization of Water And Sewage Systems; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Complete design & tendering of Sewerage System Network of Region Km7& Km4 of Matrouh City; Client NOPWAS –National Organization of Water And Sewage Systems; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Design & tendering of Sewerage System Network of 32 Village surrounding RAHAWY DRAIN in Giza Governorate; Client CAPW –Construction Authority of Potable water and Wastewater; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Design & tendering of New Sewage Treatment Plants of 150,000 m³/day for 6 October City; Client CAPW – Construction Authority of Potable water and Wastewater; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Design & tendering of Sewage Treatment Plants of 30,000 m³/day for Masheat Radwan Village- Giza; Client CAPW –Construction Authority of Potable water and Wastewater; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Design & tendering of extension of Sewage Treatment Plants of 60,000 m³/day for AYAT City- Giza; Client CAPW –Construction Authority of Potable water and Wastewater; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Design & tendering of Two Water Treatment Plants of 7,000 and 10,000 m³/day for Kasumulu (Tanzania side); and Songwe (Malawi side) respectively and their water supply systems on Malawi / Tanzania border Songwe River Basin, for ACE Moharram-Bakhroum consulting Firm.</p> <p>Technical Reviewer, Advisor and following technical problems of executing of extension of North Helwan Water Treatment Plant of 200,000 m³/day for Client CAPW –Construction Authority of Potable water and Wastewater; for ACE Moharram-Bakhroum consulting Firm.</p> <p>Technical Reviewer, Advisor and following technical problems of executing of Road Drainage System for all roads designed at ACE Moharram-Bakhroum consulting Firm Such as: drainage works of all bridges in Greater Cairo, Fowa-Motoba Road, etc.</p> <p>Technical Reviewer, Advisor and following technical problems of executing of Plumbing and Firefighting systems designed at ACE Moharram-Bakhroum consulting Firm such as: Tahrir Garage, many Police Stations for Egyptian Interior Ministry, many prison for Egyptian Interior Ministry, many Courts for Egyptian Judge Ministry, many Building of Re-location of Factory 63 for Egyptian Defense Ministry.</p>

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10/1988 : Now	Shebin Elkom, Egypt	Menoufia University	Prof of Sanitary and Environmental Engineering	<p><i>Teaching all the courses related to : Sanitary and Environmental Engineering for unergraduate and post graduate civil Engineering including:</i></p> <ul style="list-style-type: none"> • Solid Waste Management course for 4th year undergraduate engineering student. • Environmental Engineering course for 4th year undergraduate engineering student. • Sanitary Engineering project for 4th year undergraduate engineering student. • Industrial Water &Wastewater Treatment course for postgraduate student. • Solid Waste Management course for postgraduate student • Water pollution course for postgraduate student. • Environmental Engineering course for postgraduate student. • Advance Wastewater &water treatment course for postgraduate student. • Sludge Treatment and Management course for postgraduate student • Fundamentals of Water Environment Engineering • Environmental Engineering and Pollution Control • Advanced Studies for Solid Waste and Sludge Management <p><i>Supervision, Reviewer and Examiner of many M Sc. & PhD thesis in Sanitary and Environmental Engineering for unergraduate and post graduate civil Engineering including:</i></p> <ul style="list-style-type: none"> • Tannery wastewater treatment] • Simultaneous Treatment and Hydrogen Production from Municipal Solid Waste Using Anaerobic Digestion • Study on Sludge Separation Processes • Wetland as advanced wastewater treatment] • Enhancement of wastewater treatment in Stabilization Ponds using Algae] • Enhancement the sludge properties from wastewater treatment] • Evaluation and modification of compact unit for treating domestic wastewater] • Dynamic Modelling to Simulate Performance of Activated Sludge Process] • Modeling water quality in water distribution system] • UASB for treating wastewater of small communities] • Electrolysis analysis for treating the tannery wastewater] • Hydraulic analysis modeling and modification of water distribution system] • Development the Conventional Sewage Treatment Systems by using Soil Aquifer Treatment] • Solar Desalination] • <p>Consultant Engineering works including Design, Supervision, study, investigation, reporting</p> <p>Technical Reviewer and Advisor of tender drawings and specification of HAEL Wastewater Treatment</p>

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				<p>Plant; client Saudi Ministry of Water and Electricity; for KHATEEB and ALAM consulting Firm.</p> <p>Comprehensive Study for Bioelectrolytic System for the Treatment of Industrial Wastewater of Tanneries for Menoufia University – Shebin Elkom, Egypt - in cooperation with South Carolina University - USA, Sponsored Scientific Research Academy, Ministry of High Education, Cairo, Egypt.</p> <p>Participating in estimating prices of all water supply, sanitary and plumbing works for all Contractors working for El-Menoufia University (Arab Contractors, ElAbd, Mokhtar Ibrahim, EGYGO, ATLUS, Cairo for General Contractors, etc. Co) .</p> <p>Master plan design of water, wastewater and solid waste facilities of villages Manawahla, Garawan, Bai Elarab, Meet Afifi, Mesheeraf, and Kafr Elkhadra, in El Bagour District, Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Design, drawing, and specification of plumbing works, water supply pipes, Sewage network and treatment for Hospital of National Kideny Institute, El-Menoufia University, Shebin Elkom, Egypt.</p> <p>Design and supervision of water supply, sewerage pipe networks and plumbing , preparing executing drawings, general and special specifications and bill of quantities for Faculties Campus (Commerce, Laws, Sciences, Information, etc.) of El-Menoufia University.</p> <p>Master plan for solid waste collection, transporting and disposal of nine villages at Shebin ElKom District –El Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Master plan design of water, wastewater and solid waste facilities of villages Elmay, Elbatanoon, Shora-Bas, Meleeg, Hesel Meleeg, Shanawan, Elmoselha, Bakhaty, in Shebin Elkom, District Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Design and supervision of water supply and sewerage pipe networks, preparing executing drawings, general and special specifications and bill of quantities for Faculty of Engineering, El-Menoufia University.</p> <p>Supervision of water supply network, sewerage system and construction buildings in many faculties (Laws, Sciences, Medicen, Agriculture) of El-Menofia university Camp.</p> <p>Design, drawing, and specification of plumbing works, water supply pipes, Sewage network and treatment for Hospital of National Kideny Institute, El-Menoufia University, Shebin Elkom, Egypt.</p> <p>Design and supervision of water supply, sewerage pipe networks and plumbing , preparing executing drawings, general and special specifications and bill of quantities for Faculties Campus (Commerce, Laws, Sciences, Information, etc.) of El-Menoufia University.</p>

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				<p>Master plan for solid waste collection, transporting and disposal of nine villages at Shebin ElKom District –El Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Master plan design of water, wastewater and solid waste facilities of villages Elmay, Elbatanoon, Shora-Bas, Meleeg, Heset Meleeg, Shanawan, Elmoselha, Bakhaty, in Shebin Elkom, District Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Design and supervision of water supply and sewerage pipe networks, preparing executing drawings, general and special specifications and bill of quantities for Faculty of Engineering, El-Menoufia University.</p> <p>Design of water distribution system for the industrial zone in Quesna, El-Menoufia Governorate.Design of water distribution system for the industrial zone in Quesna, El-Menoufia Governorate.</p> <p>Quality control tests for water and construction buildings in the laboratory of Properties of materials, Faculty of Engineering, El-Menoufia University.</p>
2002-Now	Cairo-Egypt	Delta Consult	Manger	<p>Master plan design of water, wastewater and solid waste facilities of Meet Ghamr City, Dakahlya Governorate, for Communities Planning Authority, Cairo, Egypt.</p> <p>Master plan design of water, wastewater and solid waste facilities of Kafr El-Zayyat City, Gharbia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Comprehensive, economical and evaluation alternatives study of project “New Strategies for Wastewater Management and Reuse in Alexandria in 2037” for Nile Consult Firm, the client: the Mediterranean Countries Cooperation Association, Cairo, Egypt.</p> <p>Revise and modify of Comprehensive Development and final design of two gravity sewer pipelines of diameters 1500, 1800 and 2000 mm for the 4th stage of Rehab city, for the Egyptian Organization for the Execution of Water and Wastewater Projects, Ministry of Housing, and New Communities, Cairo, Egypt.</p> <p>Design executing and workshop drawings of water supply pipe networks, valve chambers, thrust blocks, sewerage networks, manholes, inspection chambers, and rain collectors , fire pipelines networks, and irrigation pipelines networks Of Teba Zone, New Cairo City, for the Egyptian - Kuwaitian Company, for El-Abd Company.</p> <p>Design executing and workshop drawings of water supply pipe lines, valve chambers, thrust blocks and pumps station and buildings for Siwa City, Marsa Matrooh Governorate, Ministry of Housing, and New Communities for the Industrial and Engineering Enterprises Company.</p>

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				<p>Design, drawing, and specification of Spray Irrigation System including all pump station, tanks, filters, layouts, water supply networks, spray sprinklers, and other facilities of Police Academy and Tora Prison for the Nile Consult board and Ministry of Interior, Cairo, Egypt..</p> <p>Comprehensive Study for Bioelectrolytic System for the Treatment of Industrial Wastewater of Tanneries for Menoufia University – Shebin Elkom, Egypt - in cooperation with South Carolina University - USA, Sponsored Scientific Research Academy, Ministry of High Education, Cairo, Egypt.</p> <p>Design executing and workshop drawings of water supply pipe networks, valve chambers, thrust blocks and pumps station and buildings for El-Alameen City, Marsa Matrooh Governorate, Ministry of Housing, and New Communities for Mktar Ibraheem Company.</p> <p>Master plan design of water, wastewater and solid waste facilities of Meet Ghamr City, Dakahlya Governorate, for Communities Planning Authority, Cairo, Egypt.</p> <p>Design executing and workshop drawings of roads, water supply pipe networks, valve chambers, thrust blocks, sewerage system, rain collection and pumps station and buildings for the Free Zone Region of Investment, General Organization Investment and Zone Region, for Atlus Company.</p> <p>Design of sewerage system for Cloubatra and Shat-Elgharam beach Camp, Mars-Matroh Governorate.</p> <p>Design executing and workshop drawings of water supply pipe networks, valve chambers, thrust blocks, sewerage networks, manholes, inspection chambers, and rain collectors for Administration, Central, and 5th Regions, New Domaitta City, Ministry of Housing, and New Communities, Cairo.</p> <p>Design executing and workshop drawing of elevated tank, water supply and sewerage networks of Investment Region, Elkattamia, Cairo.</p> <p>Master plan design of water, wastewater and solid waste facilities of Kafr El-Zayyat City, Gharbia Governorate, for Communities Planning Authority , Cairo, Egypt.</p> <p>Design, drawing, and specification of Sanitary Landfill near Sadat city including landfill cells, leaches collection and treatment, water supply and fighting fire networks and tanks, administration and other buildings for all cities of Gharbia Governorate, Tanta, Egypt.</p> <p>Participating in estimating prices of all water supply, sanitary and plumbing works for all Contractors working for El-Menoufia University (Arab Contractors, ElAbd, Mokhtar Ibrahim, EGYGO, ATLUS, Cairo for General Contractors, etc. Co) .</p> <p>Design executing and workshop drawings of water supply pipe networks, valve chambers, thrust blocks, sewerage networks, manholes, inspection chambers, and rain collectors for Administration, Central,</p>

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				<p>and 5th Regions, Elsheikh Zaid City, Ministry of Housing, and New Communities, Cairo.</p> <p>Master plan design of water, wastewater and solid waste facilities of villages Manawahla, Garawan, Bai Elarab, Meet Afifi, Mesheeraf, and Kafr Elkhadra, in El Bagour District, Menoufia Governorate, for Communities Planning Authority , Cairo, Egypt.</p>
8/2013 : 10/2014	Cairo-Egypt	Ahmed Abdel-Warh Consulting (AAW)	Part time Consultant	<p>Concept, Preliminary studies, and Complete design & tendering of Water Treatment Plant of 150'000 m3/day for Hail Region, for client: General Water Directorate of Hail Region, Saudi Ministry of Water and Electricity; for AAW consulting Firm.</p> <p>Concept, Preliminary studies, and Complete design & tendering for expansion of Desalination Water Treatment Plants of 150'000 m3/day for Bereidh city, General Water Directorate of Qassim Region, Saudi Ministry of Water and Electricity; for AAW consulting Firm.</p> <p>Concept, Preliminary studies, and Complete design & tendering for Three Sewage Treatment Plants of 30,000 m3/day for Asyah, Uyon Eljewa city, 15,000 m3/day for Nabhanya city, for client: General Water Directorate of Qassim Region, Saudi Ministry of Water and Electricity; for AAW consulting Firm.</p> <p>Design, drawing, and specification of plumbing works, water supply pipes, Sewage network for Faculty of Education, El-Menoufia University, Shebin Elkom, Egypt.</p> <p>Concept, Preliminary studies, and Complete design & tendering for expansion of three Desalination Water Treatment Plants of 100'000, 25,00 & 25,000 m3/day for Uniza, Mezneb &Asyah cities, for client: General Water Directorate of Qassim Region, Saudi Ministry of Water and Electricity; for AAW consulting Firm.</p> <p>Technical Reviewer, Advisor of Sewerage Treatment Plants in ASSEEB, THERAMETE, and DOFAR communities in Sultanate Oman, for AAW consulting Firm.</p> <p>Concept, Preliminary studies, design, and drawings of Desalination Water Treatment Plants and Wastewater Treatment Plant and Solid waste management of 22 Regions for housing projects in Saudi Central Areas Sector for Saudi Ministry of Housing, for client: Zher Fayeze Consultant; for AAW consulting Firm.</p> <p>Technical Reviewer, Advisor and following technical problems of executing of water and wastewater supply and sewerage Treatment and networks systems for Utilities consulting Firm.</p>
10/2008 : 7/2013	Saudi Arabia	University of Tabuk	Prof. of Water and	<p><i>Project Name:</i> Building the capacity of the Faculty of Engineering</p> <p><i>Client / Financing Source:</i> Saudi High Ministry of Education</p>

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			Environmental Engineering	<p>Project Description:</p> <ul style="list-style-type: none"> • Building courses of water and environmental engineering <p>Activities performed:</p> <ul style="list-style-type: none"> • Reviewing and comparison of the international courses of water and environmental engineering • Description of water and environmental engineering courses • Teaching courses of water and environmental engineering <p><i>Project Name:</i>Wastewater Reuse through Soil Aquifer Treatment</p> <p><i>Project Name:</i> Building the faculty of engineering academic courses based on the criteria's of accreditation, University of Tabuk, KSA</p>
1/2010 : 7/2013	Saudi Arabia	Part Time for Khatib and Alami Consulting Firm	Consultant and Technical Reviewer	<p>Technical Reviewer, Advisor and following technical problems of executing of water supply and sewerage networks systems in Tabuk region – Tabuk, Amlug, Taymaa, Bedee, Haql, Depa, Sharma, Elwagah cities-; client Tabuk General Organization of Water, Saudi Ministry of Water and Electricity; for KHATIB and ALAMI consulting Firm.</p> <p>Hydraulic Analysis of water supply pipe networks, valve chambers, thrust blocks and pumps station and buildings for 6 villages (Eljahra, Moseles Eljahra, Assafia, Beer Hermas,) in Tabuk Region, Saudi Arabia, for Cities Stabilization Company- Tabuk Directory of Water, Saudi Arabia.</p> <p>Technical Reviewer, Advisor and following technical problems of executing of 8 wastewater treatment plants in Tabuk region – Tabuk, Amlug, Taymaa, Bedee, Haql, Depa, Sharma, Elwagah cities-; client Tabuk General Organization of Water, Saudi Ministry of Water and Electricity; for KHATIB and ALAMI consulting Firm.</p> <p>Preliminary study, design, drawings and cost estimates for extension of Tabuk Wastewater Treatment Plant of capacity 90,000 m³/day, for client: Tabuk General Organization of Water, Saudi Ministry of Water and Electricity; for KHATIB and ALAMI consulting Firm..</p> <p>Revise and modify of Comprehensive Development and final design of two gravity sewer pipelines of diameters 1500, 1800 and 2000 mm for the 4th stage of Rehab city, for the Egyptian Organization for the Execution of Water and Wastewater Projects, Ministry of Housing, and New Communities, Cairo, Egypt.</p> <p>Comprehensive, economical and evaluation alternatives study of project “New Strategies for Wastewater Management and Reuse in Alexandria in 2037” for Nile Consult Firm, the client: the Mediterranean Countries Cooperation Association, Cairo, Egypt 2010.</p> <p>Technical Reviewer and Advisor of tender drawings and specification of HAEL Wastewater Treatment Plant; client Saudi Ministry of Water and Electricity; for KHATIB and ALAMI consulting Firm.</p>

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2006-2008	Tanta-Egypt	Water Supply and Sanitation Company of Gharbia Governorate	Visitor Consultant	Technical Consultant of Water Supply and Sewage Disposal Company for Gharbia Governorate (Part of the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt) with duty of: Reviewing the developing Master Plan of Water Supply and Sewage Disposal Systems for all cities, towns, main villages and small villages; Reviewing tenders of all construction projects in the company (water and wastewater of pipes and treatment plants, Mean head quarter buildings of branches, etc.), Technical advisors for operating and maintenance problems of Water Supply and Sewage Disposal systems.
2007-2008	Cairo-Egypt	Engineers Consultants Group (ECG)	Part time Consultant	<p>Master plan design of Water Treatment Plant facilities; evaluation, pre-proposal assessment, comprehensive development and final design, preparing executing drawings, general and special specifications and bill of quantities of High Priority Projects of Water Treatment Plant of Kalyobia Governorate for the Engineers Consultants Group (ECG), the client: the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt.</p> <p>Technical Reviewer of Design, drawing, specification, Tendering, and Evaluation of tenders of infrastructural projects (plumbing, irrigation, water supply, Sewage disposal, pump station and their facilities) at the Engineers Consultants Group (ECG).</p> <p>Leader Teams of Design, drawing, specification, Tendering, Evaluation of tenders and supervising of constructing new Wastewater treatment Plant and its facilities for Multi-nations Force Organization Camp in North Saina, for the Engineers Consultants Group (ECG) the owner: Multi-nations Force Organization in middle east, Cairo, Egypt.</p> <p>Master plan design of Water Supply facilities; evaluation, pre-proposal assessment, comprehensive development and final design, preparing executing drawings, general and special specifications and bill of quantities of High Priority Projects of Water Supply facilities of Greater Cairo for the Engineers Consultants Group (ECG) for Greater Cairo Water Supply Company; Part of the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt.</p> <p>Design executing and workshop drawings of Extention of Eastern Wastewater Treatment Plant, Alexandria, for the Arab Contractor Company.</p>
2005-2008	Cairo-Egypt	Pacer Consult	Visitor Consultant	<p>Revise and modify of Comprehensive Development and final design of water supply pipes 1000 mm of length 28 km and 600mm of length 8 km from Imbaba WTP to Pyramids' Region and its surroundings including valve chambers, tunnels under railway, irrigation channels and roads and all other units and buildings, for the Pacer Consult and the Organization for the Execution of Water and Wastewater Projects for Greater Cairo and Alexandria, Ministry of Housing, and New Communities, Cairo, Egypt.</p> <p>Master plan design of Water Treatment Plant facilities; evaluation, pre-proposal assessment, comprehensive</p>

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				<p>development and final design, preparing executing drawings, general and special specifications and bill of quantities of High Priority Projects of Water Treatment Plant of Damietta Governorate through Pacer Consult for Water Supply Company of Damietta Governorate, the Holding Company of Water and Wastewater, Cairo, Egypt.</p> <p>Revise and modify of Comprehensive Development and final design of water treatment plants for 240-village project of module capacity of 45, 50 and 300 l/s valve including tube settler process' tanks, filtration tanks, Clear reservoirs, Sludge process and all other units and buildings, for the Pacer Consult and National Organization of Potable Water and Sanitary Drainage (NOPWASD), Cairo, Egypt.</p>
1999-2007	Cairo-Egypt	Misr Consult	Part time consultant	<p>Revise and modify of Comprehensive Development and final design of two ground reservoirs, pump station, pump station's facilities, and water supply pipelines of diameter 1400 mm and length 35 km from 10th Ramadan city WTP to El-Sherook city and its surroundings including valve chambers, tunnels under railway, irrigation channels and roads and all other units and buildings, for the Organization for the Execution of Water and Wastewater Projects for Greater Cairo and Alexandria, Ministry of Housing, and New Communities, Cairo, Egypt.</p> <p>Master plan design of wastewater facilities; evaluation, pre-proposal assessment, comprehensive development and final design, preparing executing drawings, general and special specifications and bill of quantities of High Priority Projects of sewage facilities of Alexandria Governorate for the Misr Consult for Alexandria of Sanitary Drainage Company, the Holding Company of Water and Wastewater, Cairo, Egypt.</p> <p>Design, drawing, and specification of Raw pump station, rising raw pipes, Water treatment Plant, Wastewater treatment Plant and Irrigation system using treated wastewater for desert lands including all treatment units, tanks, layouts, water supply, sewerage and fighting fire networks and, administration and other buildings for New Quna City, Ministry of Housing, and New Communities, Cairo, Egypt.</p> <p>Pre-proposal assessment and Comprehensive Development and final design of water supply networks valve chambers, and elevated tanks, and preparing executing drawings, general and special specifications and bill of quantities for Giza city and surrounding areas- Giza Governorate, for the Holding Company of Water and Wastewater, Cairo, Egypt.</p> <p>Design of water supply pipe networks, valve chambers, and elevated tanks, and preparing executing drawings, general and special specifications and bill of quantities for South Port Said Agriculture Communities (of Area 200 Km²), Port Said Governorate.</p> <p>Design of water supply pipe networks valve chambers, elevated tanks, and pump stations, and preparing</p>

<i>Date from - Date to</i>	<i>Location</i>	<i>Company</i>	<i>Position</i>	<i>Project and Description of Activities, Financing Source</i>
				<p>executing drawings, general and special specifications and bill of quantities for New Borg El-Arab cities, Alexandria Governorate.</p> <p>Pre-proposal assessment and Comprehensive Development and final design with Emphasis on water supply, Sanitation and solid waste Project for villages of Ques District –Qena Governorate, for Egyptian Swiss Development Fund, Cairo, Egypt.</p> <p>Design of sewage pump stations, forcing main pipelines, gravity pipelines and preparing executing drawings, general and special specifications, bill of quantities and workshop drawings for syndicates (NEKABAT) housing of new Cairo city, CAIRO Governorate.</p> <p>Design of water supply pipe networks valve chambers, elevated tanks, and pump stations, and preparing executing drawings, general and special specifications and bill of quantities for El-Alameen and El-Dabaa cities, Marsa Matrouh Governorate.</p> <p>Pre-proposal assessment and Comprehensive Development with Emphasis on Sanitation Project for villages of Kotour & Bassyun District –Gharbeia Governorate, for Egyptian Swiss Development Fund, Cairo, Egypt.</p> <p>Pre-proposal assessment and Comprehensive Development with Emphasis on water supply and Sanitation Project for villages of Abou Tig District -Assut Governorate, for Egyptian Swiss Development Fund, Cairo, Egypt.</p> <p>Design executing and workshop drawings of water supply for Smart village, Abou Rawash, for ministry of information and communication, Cairo.</p> <p>Preliminary study, design, and cost estimates for solid waste collection, transporting and disposal of nine villages at Quas District -Qena Governorate, for Egyptian Swiss Development Fund, Cairo, Egypt.</p> <p>Design, drawing, Tender and specification documents of Sewage network and wastewater treatment Plant of El-Kantra Shark for New Communities Authority, Ministry of Housing, El-Kantra Shark, Ismailia, Egypt.</p> <p>Comprehensive Study for pollution of Agriculture drains from sewage and industrial wastewater disposal and the available alternatives of treatments pollution for National Water Research, Ministry of Irrigation and Public Works, Cairo, Egypt.</p> <p>Design expansion, rehabilitation, and modification of wastewater treatment plant of ELADLIA Village, Damietta Governorate.</p> <p>Design executing and workshop drawing of elevated tank, water supply and sewerage networks of</p>

<i>Date from - Date to</i>	<i>Location</i>	<i>Company</i>	<i>Position</i>	<i>Project and Description of Activities, Financing Source</i>
				<p>Investment Region, Elkattamia, Cairo.</p> <p>Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Elmealla Elkobra city, Gharbia Governorate.</p> <p>Preparing specifications of sanitary landfill of solid waste for Sharm El-Sheikh, South Sainaa Governorate.</p> <p>Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Cairo and Gharbia Governorates and Ministry of Environmental.</p> <p>Preparing the Egyptian code and standards for design, operation and maintenance of sanitary landfills.</p> <p>Supervision of water supply network, sewerage system and construction buildings in many faculties (Laws, Sciences, Medicen, Agriculture) of El-Menoufia university Camp.</p> <p>Sharing in design of Water Treatment Plant of Misr Bni-Suef Cement Company.</p> <p>Supervision of Industrial wastewater treatment plant for Tanta Soap and Oil Company (Two Factories).</p> <p>Design, preparation tender, evaluation offers, selection contractor, and supervision of Industrial wastewater treatment plant to Bisco Misr company (Three Factories)</p> <p>Preparing of Environmental Impact Assessment (EIA) and primary design for Enterprises Incubators in El-Rahebein, El-Mehalla Elkobra District , Gharbia Governorate, Egypt.</p> <p>Design and supervision of water supply, sewerage, sewage and industrial wastewater works for Quena Newspaper printing company.</p> <p>Preparing specifications of sanitary landfill of solid waste for Sharm El-Sheikh, South Sainaa Governorate.</p> <p>Preparing specifications, tender and pre-qualification company of Solid Waste collection, transportation, recycling, and disposal for Cairo and Gharbia Governorates.</p> <p>Water quality control, rehabilitation and design new units of water intake and treatment plant for Cement Bni-Suef Company.</p> <p>Design, workshop drawing, Tender and specification documents of Sewage network and wastewater treatment Plant of Siwa Oasis for Siwa Governorate, Egypt.</p>
1996-1999	Czech Republic	Czech Technical University	Researcher, Ph. D. Schoolership	Check, redesign, and quality control of water distribution system in Tabor and Ciska Bodijvica cities,.
1987-1996	Shebin Elkom, Egypt	El-Menoufia University	Ass. Researcher &	Quality control tests for water and construction buildings in the laboratory of Properties of materials, Faculty of Engineering, El-Menoufia University.

<i>Date from - Date to</i>	<i>Location</i>	<i>Company</i>	<i>Position</i>	<i>Project and Description of Activities, Financing Source</i>
			Resident Engineer	<p>Check and design of water supply network and sewerage system of Tanta University Camp.</p> <p>Surveying and primary design of sewerage pipe network for El-Gaafaria and Tatay Villages, ElGharbia Governorate.</p> <p>Design and supervision of sewerage pipe network for Kafr Paldem Village, ElGharbia Governorate.</p> <p>Supervisor for constructing of extension of Water Treatment Plant and its Training Centre in Damanhour.</p> <p>Design and supervision of private buildings in Tanta, Egypt.</p>

14. Other relevant information (e.g. Publications):

Ph.D. Dissertations Supervised as the Primary Advisor

- [Tannery wastewater treatment]
- [Wetland as advanced wastewater treatment]
- [Enhancement of wastewater treatment in Stabilization Ponds using Algae]

MS Theses Supervised as the Primary Advisor

- [Modeling water quality in water distribution system]
- [UASB for treating wastewater of small communities]
- [Evaluation and modification of compact unit for treating domestic wastewater]
- [Evaluation and modification of wetland systems]

Undergraduate Research Assistants

- [Electrolysis analysis for treating the tannery wastewater]
- [Hydraulic analysis modeling and modification of water distribution system]
- [Study of Biofilm growth in water distribution systems and its control]

Funding (Not including Consulting)

- ["Wastewater Reuse through Soil Aquifer Treatment: Theoretical Approach" IDCODE: **Pj WAT S-1433-0038**, University of Tabuk, KSA Fund (≈ \$16000) 2011-2012]
- [New Strategies for Wastewater Management and Reuse in Alexandria in 2037" for Nile Consult Firm, the client: the Mediterranean Countries Cooperation Association, Cairo, Egypt Fund (≈ \$15000) 2009-2010].

[“Building the faculty of engineering academic courses based on the criteria’s of accreditation, University of Tabuk, KSA (≈ \$25000) 2008-2009]

[“Bioelectrolytic System for the Treatment of Tannery Wastewater” IDCODE: ENV9-002-002, US & Egypt cooperation Fund (\$59000) 2005-2007]

[“Investigation of Drainage water Treatment: “A Bilateral Strategy Approach” National water Research Center, Cairo, Egypt, Egypt Fund (≈ \$20000) 2002-2003].

[“Monitoring Of Water Quality In Pipeline Traveling From Česka Budějovice to Tábor” a grant from The Water Utilities of South Bohemia and the Czech Technical University, No. EP 0970008432, (≈ \$15000) 1997-1998].

[“Changes of Drinking water Quality in Distribution system” has been supported by The Czech National Agency for Agricultural research, No. EP 0960006655, (≈ \$35000) 1996-1997].

Publications in Refereed Journals

- 1- “Approach in Choosing Suitable Technology for Industrial Wastewater Treatment” J Civil Environ Eng (2012), 2:5; <http://dx.doi.org/10.4172/2165-784X.1000123>.
- 2- “Microbiology biofilm in water distribution system and their effect on water quality” paper accepted in Prime Journal of Microbiology Research (PJMR) -12-243; (2012).
- 3- “Optimization and Upgrading Wastewater Treatment Plants” Journal of Engineering Science, Assiut University, Vol. 39, No. 4, July 2011.
- 4- “Biofilm Formation in Water Distribution System” Engineering Research Journal, Al Azhar University, Vol. 14, No. 2, April 2011.
- 5- “Biological tannery wastewater treatment using two stage UASB reactors” Desalination 276 (2011) 253–259.
- 6- Deposition and Formation of THMs in Water Supply System”. Sustain. Environ. Res., 21(2), 1-6 (2011)
- 7- “Overloading Effect On The Performance Of Small Wastewater Treatment Plant”, Engineering Research Journal 127 (September 2010) C13-C26
- 8- “Anaerobic Treatment of Tannery Wastewater: A Case Study” Ain Shams Journal of Civil Engineering)ASJCE(Vol.1 , March, 2010, pp. 459-468
- 9- “Improving polluted drains water quality in free water surface constructed wetlands.” Journal of Ecological Engineering 36 (2010) 1478–1484.
- 10- “Effect of Loading Rates in Free Water Surface Constructed Wetlands for Treating Polluted Water, Case Study: Bahr El-Baqar Drain” Mansoura Engineering Journal, (MEJ), Vol. 19, No. 3 (2010), M.1-M.11.
- 11-“Pre-treatment of tannery wastewater” Journal Water Science and Technology Volume 60 No. (2), (2009) 433-440.
- 12- “Improving and optimizing performance in water treatment plant” paper published in Journal of Engineering, Faculty of Engineering, Menoufia University, V 9, No. 1, Jan. 2006.
- 13- “Review and evaluation of water supply and sanitation system in Egyptian Rural Area” paper published in Journal of Engineering, Faculty of Engineering, Al-Azhar University, V 20, No. 2, Oct. 2004.

- 14-“UASB Treating Sewage from Small Communities in Egyptian Rural Areas” paper published in Journal of Engineering, Faculty of Engineering, Menoufia University, V ٢٧, No. 4, Oct. 2004.
- 15-“Treatability study for an industrial textile wastewater” Engineering Research Journal (ARJ), Menoufia University, V ٢٧, No. 2, April 2004.
- 16- “Pollution Control of Industrial Wastewater from Soap and Oil Industries: A Case Study” Journal Water Science and Technology Volume 46 No. (4-5), 2001.
- 17-“THM Formation in Water Supply in South Bohemia, Czech Republic” Journal ‘Water Research’ Water Research, Volume 34, Issue 13, 1 September 2000, Pages 3453-3459.
- 18-“Monitoring of Drinking Water Quality during transportation from České Budějovice to Tabor.” A paper was published in Journal ‘Stavebni Obzor’ of CTU Vol. 8, No. 3, (March 1999), pp. 82-89.

Publications: Conference Papers Published in Proceedings

- 1- “Monitoring of Drinking Water Quality.” A paper was presented in the workshop 97 of Czech Technical University in Prague (CTU) , Czech Republic in Feb1997.
- 2- “The Relationship Between THM Formation and Chlorine Decay in Water Supply.” A paper was presented in symposium of “Transportation Influence on Water Quality”, Prague, Czech Republic in Nov. 1997.
- 3- “Trihalomethane Formation in Drinking Water Pipeline” A paper was presented in the workshop 98 of CTU in Feb. 1998, and also presented in the conference of “Arab Water” Cairo, Egypt, April 1998.
- 4- “The Effect of Different Parameters on Water Quality During Transportation.” A paper was presented in the conference of “Transfer 98” Prague, June 1998.
- 5- “Changing Water Quality in Drinking Water Pipelines.” A paper was presented in the conference of “Master Plans for Water Utilities” Prague, Czech Republic 1998.
- 6- “Trihalomethane Formation in Chlorinated Distribution System.” A paper was presented in the conference of “Disinfectant Residuals” Mulheim an der Ruhr, Germany, October 1998.
- 7- “Modelling of Processes in Drinking Water Network.” A poster was presented in the workshop 99 of CTU, Prague, Czech Republic in Feb. 1999.
- 8- “Monitoring of Drinking Water Quality during transportation from České Budějovice to Tabor.” A paper was published in Journal ‘Stavebni Obzor’ of CTU Vol. 8, No. 3, (March 1999), pp. 82-SB.
- 9- “Creation, Evolution and Modelling of THM in Transported Drinking Water.” A paper was presented in the conference of “Voda Zlin 1999” Zlin, Czech Republic in March 23-24, 1999.

- 10- “Corrosion and Biofilm on Coupons Through Loops Constructed along Transported Pipelines”, Proceeding of Conference of “4th IAWQ Conference on Biofilm Systems, New York, USA, October 17-20, 1999.
- 11-“THM Formation in Water Supply in South Bohemia, Czech Republic” Journal ‘Water Research’ in March 2000.
- 12-“Corrosion Investigation for Steel Water Pipelines: A Case Study” for Conference of “Water Africa 2000”, Cairo, Egypt, May, 2000.
- 13-“Pollution Control of Industrial Wastewater from Soap and Oil Industries: A Case Study” Journal Water Science and Technology Volume 46 No. (4-5), 2001.
- 14- “Industrial Wastewater Treatment for Disposal into Agriculture Drains: A Case Study” Paper presented in 1st regional perspectives Arab Water Cooperation, Cairo, Egypt, 12-14 Oct. 2002.
- 15-“Review of the existing wastewater treatment plant in Egypt” paper presented in RETEBE’02 Conference, Alexandria, Egypt, 21-32 Dec. 2002.
- 16-“Investigation of Drainage water Treatment: A Bilateral Strategy Approach” paper presented in National Water Research Center Conference, Alexandria, Egypt, 25-28 Jan. 2003.
- 17-“Distribution system and drinking water quality” paper presented in 7th International conference, ALAZHER University, Cairo, Egypt, 4-8 April. 2003.
- 18-“Constructed Wetland Performance with Time for Wastewater Treatment” paper presented in 7th International conference, Menofia University, Shebin El-Kom, Egypt, which held on 15-17 September. 2003.
- 19-“Long time series simulation for water quality in distribution systems fed from different water sources” paper presented in 7th International conference, Menofia University, Shebin El-Kom, Egypt, which held on 15-17 September. 2003.
- 20-“Treatability study for an industrial textile wastewater” paper published in Journal of Engineering, Faculty of Engineering, Menoufia University, V 20, No. 2, April 2004.
- 21-“Floation against sedimentation for water treatment” paper presented for 3th International Workshop, Seoul National University, Seoul, South Korea, which held on 5-7 Jun. 2004.
- 22-“Review and evaluation of water supply and sanitation system in Egyptian Rural Area” paper published in Journal of Engineering, Faculty of Engineering, Al-Azhar University, V 20, No. 2, Oct. 2004.
- 23-“Improving and optimizing performance in water treatment plant” paper published in the proceeding of the 9th IWTC 2005 Conference, Sharm Elsheikh , Sinia, Egypt, 17-20th March 2005.
- 24-“Environmental Management Plan for Drainage water: A Case Study” paper submitted to Aqua-Therm 2005 Conference, Conference Center, Nasr

City , Cairo, Egypt, 27-29th Apr. 2005.

- 25- “Food Industry Wastewater control” paper submitted to Aqua-Therm 2005 Conference, Conference Center, Nasr City , Cairo, Egypt, 27-29th Apr. 2005.
- 26-“Environmental Management Plan for Drainage water: A Case Study” paper presented to Aqua- Therm 2005 Conference, Conference Center, Nasr City , Cairo, Egypt, 27-29th Apr. 2005.
- 27-“Management and sustainability of investments of water sector projects” paper submitted to Aqua- Thech 2007 Conference, Conference Center, Nasr City , Cairo, Egypt, 14-16th Feb. 2007.
- 28- "Deposition and Formation of THMs in Water Supply System" paper published in the proceeding of 6th International Engineering Conference 6th IEC, Mansoura/Sharm El-Sheikh, Egypt, 20 – 23 March 2008.
- 29- "Introducing A Combined Surface And Sub-Surface Flow Wetland To Enhance Belbeis Drain Water Quality" paper published in the proceeding of 7th Egyptian Rural Development Conference (ERD7), Shebin El-Kom, Egypt, 13-15 Oct. 2009
- 30- "Use Of Full Scale Surface Flow Constructed Wetlands To Enhance Water Quality Of Bahr El Baqar Drain In Egypt" paper published in the proceeding of 7th Egyptian Rural Development Conference (ERD7), Shebin El-Kom, Egypt, 13-15 Oct. 2009.
- 31- "Evaluating And Enhancing The Performance Of Compact Unit Treating Wastewater From Small Communities" paper accepted in the proceeding of 7th Egyptian Rural Development Conference (ERD7), Shebin El-Kom, Egypt, 13-15 Oct. 2009.
- 32-“Free water surface constructed wetland case study.” Paper accepted in the International Conference of Urban Pollution (UEP 2010), June 20-23, 2010, Boston, USA.
- 33- “ Effect of Different Pipe Materials on Microbiological Water Quality due to Biofilm Formation: A Case Study” Paper accepted in the IWA Biofilm Conference 2011; Shanghai, China; 27-30 Oct., 2011.
- 34-“Optimization And Upgrading Wastewater Treatment Plants” Paper accepted in the International Conference on Civil, Architectural and Hydraulic Engineering (CAHE 2012), August 10-12, 2012, Zhangjiajie, China.
- 35- “Wastewater Reuse Through Soil Aquifer Treatment” Paper accepted in the International Conference on Environment 2012 – Penang- Malaysia, 11-13 December 2012

Publications: Technical Reports

- 1- “New Strategies for Wastewater Management and Reuse in Alexandria in 2037” for Nile Consult Firm, the client: the Mediterranean Countries Cooperation Association, Cairo, Egypt 2010.

- 2- “Bioelectrolytic System for the Treatment of Industrial Wastewater of Tanneries” for Menoufia University – Shebin Elkom, Egypt - in cooperation with South Carolina University - USA, Sponsored Scientific Research Academy, Ministry of High Education, Cairo, Egypt 2009.
- 3- “Master plan of Water supply system of Kalyobia Governorate” for the Engineers Consultants Group (ECG), the client: the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt 2008.
- 4- “Master plan of Water supply system of Greater Cairo” for the Engineers Consultants Group (ECG), the client: the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt 2007.
- 5- “Master plan of Sanitation system of Alexandria Governorate” for the Misr Consult Firm (MC), the client: the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt 2006.
- 6- “Master plan of Water supply system of Domyat Governorate” for the Pacer Consult Firm (PACER), the client: the Egyptian Holding Company of Water and Wastewater, Cairo, Egypt 2006.
- 7- “Master plan of Water Supply ,Sanitation Systems and solid waste facilities of Kafr El-Zayyat City, Gharbia Governorate” for Communities Planning Authority , Cairo, Egypt, 2005.
- 8- “Master plan of Water Supply ,Sanitation Systems and solid waste facilities of facilities of villages Manawahla, Garawan, Bai Elarab, Meet Afifi, Mesheeraf, And Kafr Elkhadra, in El Bagour District, Menoufia Governorate” for Communities Planning Authority , Cairo, Egypt, 2004.
- 9- “Master plan of Water Supply ,Sanitation Systems and solid waste facilities of facilities of villages Elmay, Elbatanoon, Shora-Bas, Meleeg, Heset Meleeg, Shanawan, Elmoselha, Bakhaty, in Shebin Elkom District, Menoufia Governorate” for Communities Planning Authority , Cairo, Egypt, 2003.
- 10-“Assessment and Comprehensive Development of water supply, Sanitation and solid waste facilities for villages of Ques District –Qena Governorate” for Egyptian Swiss Development Fund, Cairo, Egypt, 2003.
- 11-“Investigation of Drainage water Treatment: “A Bilateral Strategy Approach” National water Research Center, Cairo, Egypt, March 2002.
- 12-“Changing water quality in water distribution system and its modeling” Ph. D. Thesis, Czech Technical University, Czech Republic, May 1999.
- 13-“Research of Possibility of Ecological and Economical Treatment, Transport and Distribution of Drinking Water.” A report was published in Sanitary Eng. Dept., Fac. of Civil Eng., CTU in Prague, Czech Republic 1999.
- 14-“Research of Possibility of Ecological and Economical Treatment, Transport and Distribution of Drinking Water.” A report was published in Sanitary Eng. Dept., Fac. of Civil Eng., CTU in Dec. 1997, Prague, Czech Republic.
- 15- “Evaluation and Development of the Waste Water Treatment Plant In El-Kom El-Aghder village by Using Aqua-Life Unit” Master Science thesis 1992.

Conference and Workshop Presentations

- 1- "Transportation Influence on Water Quality" Prague, Czech republic, 29th Nov. 1997.
- 2- "Arab Water" Cairo, Egypt, April 26-28, 1998.
- 3- "Master Plans for Water Utilities" Prague, Czech republic, June 17-18, 1998.
- 4- "Disinfectant Residuals" Mulheim an der Ruhr, Germany, 28-30 September 1998.
- 5- "Water Industry and Technology" Alexandria, Egypt, Dec., 1999.
- 6- "Water Africa 2000" Cairo, Egypt, May, 2000.
- 7- "IWA 2nd World Congress, Efficient water management – making it happen" Berlin, Germany, 15-19 October 2001.
- 8- "1st Regional conference on Perspectives of Arab Water Cooperation" Cairo, Egypt, 12-14 October 2002.
- 9- "RETEBE'02" Conference, Faculty of Engineering, Alexandria, Egypt, 21-32 Dec. 2002.
- 10- "National Water Research Center Conference" Alexandria, Egypt, 25-28 Jan. 2003.
- 11- 7th International conference, ALAZHER University, Cairo, Egypt, 4-8 April. 2003.
- 12- 7th International conference, Menofia University, Shebin El-Kom, Egypt, 15-17 September. 2003.
- 13- Aqua Tech 2004 Conference, Conference Center, Nasr City , Cairo, Egypt, 26-28 Feb. 2004.
- 14- Aqua-Therm 2005 Conference, Conference Center, Nasr City , Cairo, Egypt, 27-29th Apr. 2005.
- 15- 2nd Aqua- Thech 2007 Conference, Conference Center, Nasr City , Cairo, Egypt, 14-16th Feb. 2007.
- 16- 6th International Engineering Conference 6th IEC, Mansoura/Sharm El-Sheikh, Egypt, 20 – 23 March 2008.
- 17- 7th Egyptian Rural Development Conference (ERD7), Shebin El-Kom, Egypt, 13-15 Oct. 2009

Professional Affiliations

- ◆ Member in Egyptian Engineering Syndicate.
- ◆ Member in Egyptian Consulting Engineering Association.
- ◆ Member in International Water Association (past)..
- ◆ Member in Czech Water work Association (past).

- ◆ Member in Egyptian Water Association.
- ◆ Member in Association of Environment and Industry.

Technical Reviewer

1. Desalination Journal of the International Journal on the science and technology desalting and water purification.
2. Parlar Scientific Publication “Fresenius Environmental Bulletin (FEB)” 12 Angerstr. 85354 Freising GERMANY.
3. KSCE Journal of the Korean Society of civil Engineers
4. Journal of the Engineering Researches, Published by Faculty of Engineering at Minufiya University, Egypt.
5. “Enhanced removal of organic matter and nitrogen in a vertical-flow constructed wetland incorporated with *Eisenia foetida*” in the Desalination and Water Treatment (DWT) Journal. **2013**
6. “Treatment of Tannery Waste Water Using Anodizing Mud As An Adsorbent” Pakistan Journal of Scientific And Industrial Research, January **2013**
7. “The evaluation of small ponds on the quality of water in a river” the conference of 785 Engineering and Applied Science Oct. 2012.
8. “Factors Affecting Biological Reduction In Tannery Wastewater Treatment” Environmental Engineering and Management Journal January, 2013
9. “Electrochemical treatment of evaporated residue of soak liquor salt generated from Leather industry” in the Journal of Water Research Sep. 2012
10. “Removal performance and mechanism of TP in improved constructed rapid infiltration system” Fresenius Environmental Bulletin. November 2012.
11. “PEG-Sodium citrate aqueous two phase systems for the recovery of tannery waste water crude proteins” Asia-Pacific Journal of Chemical Engineering. October 2012.
12. “Tracer behaviour and analysis of hydraulics in experimental free water surface wetlands” Journal of Desalination June - 2012
13. “Effects of pH and Temperature on Coupling Nitrification and Anammox in Marble-Slag Biofilters Treating Dairy Wastewater” Journal of Ecological Engineering Apr. 2012
14. “Promotion effect of Fe²⁺ and Fe₃O₄ on reductive denitrification of nitrate by zero-valent iron” Journal of Desalination Apr. 2011.
15. “Resource recovery from septic tank effluent via duckweed-based tilapia aquaculture” Journal of Ecological Engineering Apr. 2011.
16. “Degradation Laws of Organic Matter and Ammonia Nitrogen in Constructed Rapid Infiltration System” Fresenius Environmental Bulletin. February 2011.
17. “Effect of enzymatic pretreatment and increasing the organic loading rate of lipid-rich wastewater treated in a hybrid UASB reactor”. Desalination Journal Jan. 2011.

18. "Optimal Design of Stormwater Detention Basin using Genetic Algorithm" KSCE Journal of Civil Engineering. December 2010.
19. "Organic Matter Degradation Kinetics and Filter Layer Height Calculation Modelin Constructed Rapid Infiltration System" Fresenius Environmental Bulletin. November 2010
20. "Effects of UV/H₂O₂ on NOM Fractionation and Corresponding DBPs Formation" Desalination Journal Oct. 2010