

Holds B. Sc., M. Sc. and PhD in Electrical Power & Machines Engineering and has over 28 years experience working in construction, design and technical office.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 11/11/1972
Gender : Male
Marital Status : Married

EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 1994
- : M. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2003
- : PhD in Electrical Power & Machines Engineering, Ain Shams University, 2008

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Management of Power Utilities, Nagoya School of Commerce & Business, Japan (2020).
- : Energy Efficiency and Energy Conservation Policies, Kyushu International Training Agency (KITA), Japan (2016).
- : Procurement according to WB guidelines, World Bank, Cairo (2015).
- : Preparation for Project Management Professional (PMP) test, Cairo University (2014).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2020 till now
Employer : Egyptian Electricity Holding Company (EEHC)

Job Description :

- Head of Design and Specifications Sector, including 5 departments: substation design, overhead transmission line and cable design, specifications, civil and architecture, survey.
- Member of the procurement committee since August 2022.
- Head of technical secretary for the procurement committee till July 2022: giving advice to the procurement committee on procedural, legal, financial, and technical aspects of the procurement processes.
- Projects Manager for Hydrogen Projects: working on setting up the national hydrogen strategy and negotiating green and blue hydrogen projects with developers. The strategy development path included talks with international financial institutions like EBRD, KFW, and AFD as well as embassies of France, Germany, and the UK. Negotiations with hydrogen projects developers included DEMA concessions, Siemens Energy, ENI, GE and others.

Dates : From Jun. 2022 till now
Employer : Middle Delta Electricity Production Company (MDEPC)

Job Description :

- Non-Executive Board Member.
- Member of the High Management Interviewing Committee.

Dates : From May 2021 till May 2022
Employer : Alexandria Electricity Distribution Company (AEDC)

Job Description :

- Non-Executive Board Member.
- Member of the Internal Auditing Committee.

Dates : From Mar. 2016 till Jun. 2020
Employer : Egyptian Electricity Holding Company (EEHC)
Job Description : General Manager for Investment and Technical Cooperation: managing a team of 15 members of various disciplines. Led loan negotiations with JICA for the sectorial loan for electricity sector rehabilitation. Led contract negotiations with MHPS under JICA rules. Fulfilled all JICA requirements for project financing and supervised implementation. Participated in setting up and follow up of triggers for several loans, e.g.: AFD Development Policies Loan (DPL), AfDB Loan.

Dates : From Dec. 2013 till Feb. 2016
Employer : Egyptian Electricity Holding Company (EEHC)
Job Description : Manager of Technical Office for Planning, Research, and Power Plants Projects: I worked on strategic files like the evaluation of Ethiopia's Renaissance Dam effects on Egypt's power plants, sea water desalination, solar pumping for irrigation in desert areas, development of the electricity law to fulfill WB / IFC triggers associated with the DPL loan. I also participated in formulating the agreements of Pan Arab Electricity Market.

Dates : From Jun. 2010 till Dec. 2013
Employer : Egyptian Electricity Holding Company (EEHC)
Job Description :

- Principal Engineer for design and studies.
- Contributed in the Egyptian-Saudi HVDC Interconnection Project (Design

and Agreements Phase).

Dates : From Mar. 2003 till Jul. 2010
From Nov. 1998 till Oct. 1999

Employer : Rural Electrification Authority (REA)

Job Description :

- Studies and Design Center: participated in the design and implementation of several rural electrification projects.
- Jul. 2008 – Jun. 2010: Senior Electrical Design Engineer.
- Aug. 2003 – Jun. 2008: Electrical Design Team Leader.
- Nov. 1998 – Jul. 2003: Electrical Design Engineer.

Dates : From Nov. 1999 till Feb. 2003

Employer : Integrated Consulting Group (ICG)

Job Description : Full-time Design Team Leader.

Dates : Mar. 2003

Job title : Freelancing Design Engineer / Consultant

Job Description :

- Engineering Consultancies Center (ECC), Ain Shams University, Faculty of Engineering, Egypt.
- Center for Planning and Architectural Studies (CPAS).
- Scientific Implementation Company (SICO).
- Consulting Engineering Co. (CEC), Abu Dhabi branch / Cairo Branch.
- Scientific Office for Electromechanical Engineering (SOFEE).

Dates : From Dec. 1994 till Oct. 1998

Employer : Ministry of Finance – Sales Tax Authority (GSTAX)

Job title : Site Electrical Engineer

Job Description : Indoor networks (electricity, communication, and IT) for several office buildings and training centers.

Projects:

- EGYPT:
 - Power Plants, transmission and distribution networks:
 - ❖ Sharm El-Sheikh 5MW PV plant: design and preparation of RFP and tender documents, EEHC, 2022.
 - ❖ GE pilot project for mixing hydrogen with natural gas in Sharm El-Sheikh simple cycle power plant, EEHC, 2022.
 - ❖ Egypt – Cyprus HVDC interconnection project, Project Coordinator / Focal Point, 2000MW, 500kV double pole, EEHC, 2016 – Sep. 2019.
 - ❖ Coal fired Power Plants, 6000MW Ultra Super Critical Steam Turbines, Project Coordinator / Focal Point, EEHC, 2014 – 2017.
 - ❖ Mitsubishi-Hitachi Gas Turbine Major Inspection Project, 6 turbines x 250MW in combined cycle PP, Projects Coordinator, EEHC, 2015 – 2021.
 - ❖ Design of medium voltage network for BENBAN Solar Park, CEC, 2016.

- ❖ Egyptian-Saudi interconnection project: Project Coordinator, EEHC, 2009 – 2013.
- ❖ Egypt, Giza, Strategic Master Plan (10 years) for Rehabilitation, Reinforcement and Expansion of medium and low voltage distribution networks, REA, 2003.
- ❖ Egypt, New Cairo, Strategic Master Plan for new medium and low voltage distribution networks and street lighting, Integrated Consulting Group and Ministry of Housing, 1999 – 2003.
- ❖ Egypt, 6th of October city, Strategic Master Plan for new medium and low voltage distribution networks and street lighting, Integrated Consulting Group and Ministry of Housing, 1999 – 2003.
- ❖ Egypt, 10th of Ramadan city, Strategic Master Plan for new medium and low voltage distribution networks and street lighting, Integrated Consulting Group and Ministry of Housing, 1999 – 2003.
- ❖ Egypt, Industrial zone, Obour city, Strategic Master Plan for new medium and low voltage distribution networks and street lighting, Integrated Consulting Group and Ministry of Housing, 1999 – 2003.
- ❖ Egypt, Red Sea governorate, Hurghada - Safaga highway, Highway lighting project, Integrated Consulting Group and Red Sea governorate, 1999.
- Hospitals:
 - ❖ Pediatrics teaching hospital, Ain Shams University, ECC, 2007.
 - ❖ Police general hospital, Ministry of interior, 2009.
 - ❖ Obstetrics and Gynecology teaching hospital, Ain Shams University, ECC, 2006-2009.
 - ❖ Rehabilitation and development of ER departments, Ain Shams University, ECC, 2008.
 - ❖ Kitchen and laundry rehabilitation project, Ain Shams University, ECC, 2007.
 - ❖ Oncology hospital, General authority of medical insurance, SOFEE, 2005.
 - ❖ Rehabilitation and development of Surgery departments, Ain Shams University, ECC, 2005-2006.
 - ❖ Rehabilitation and development of IC units, Ain Shams University, ECC, 2004.
- Factories:
 - ❖ Sumitomo Control Wires factory, Portsaid, CPAS, 2009.
 - ❖ Sinai Co. for Marble and Granite factory, Badr city, 2007-2008.
 - ❖ Foam Industries Co. factory, Badr city, 2007.
- Office Buildings:
 - ❖ Regional UNESCO office building, 6th of October city, CPAS, 2009.
 - ❖ National UNESCO office building, 6th of October city, CPAS, 2009.
 - ❖ General authority for investment, new headquarters, Madinat Nasr, CPAS, 2009.
 - ❖ Value added taxes authority building, Madinat Nasr, GSTAX, 1995-1998.
- Educational Facilities:
 - ❖ Techno-economical institute, ministry of high education,

Shorouk city, 2008.

❖ Singer technology institute, ministry of high education, 2008.

- KSA:
 - Design and tender documents for faculty of computer science building, king fahd university of petroleum & minerals, Aldhahran area, Dammam.
 - Load estimation, planning and design of medium voltage network (13.8KV) and street lighting schemes for 7 new universities in KSA: Tabuk, Taif, Baha, Arar, Geezan, Najran and Rafhaa.
 - Load estimation and load development studies and planning of high and medium voltage networks and street lighting schemes for Wadi Al Asla Development Project, Jeddah (132KV, 33KV, 13.8KV, 0.4KV networks).
- UAE:
 - Load estimation and load development studies and planning of high and medium voltage networks and street lighting schemes for Wadi Al Asla Development Project, Jeddah (132KV, 33KV, 13.8KV, 0.4KV networks).
 - Development of medium voltage networks, Sir Banyas Island, Abu Dhabi, CEC.
 - Distribution networks Rehabilitation, Development and Reinforcement Planning for Alwathba area, 33/11KV substations, 33KV, and 11KV networks, CEC, 2010, Abu Dhabi.
- ETHIOPIA: Jigjiga-Degahabur transmission project (2 substations 132/33/15KV), Design review, Tender document review, pre-tender services, Position: Consultant, Location: Addis, Ethiopia, SALEH & HEJAB, 2012.

Further experiences :

- Lecturer, Arab Academy for Science, Technology and Maritime Transport (2008 – 2018).
- Lecturer, German University in Cairo (2009 – 2017).

Field of experience :

- Main Fields of expertise:
 - Planning, design, supervision, and construction of electrical distribution systems in urban and rural areas.
 - Design, supervision, and implementation of indoor electrical distribution systems and light current systems (e.g.: fire alarm, VoIP, LAN, public address) for educational, medical, government and municipal, recreational, office, and tourist buildings.
 - Adoption of new technologies for energy transition, electrification of autonomous areas, and climate change mitigation, e.g.: green hydrogen and its derivatives, electric vehicles, distributed energy resources, microgrids, solar pumping for irrigation, sea water and brackish water desalination ...etc.
 - Formulation and negotiation of contracts, agreements, and memoranda of understanding associated with loans from international financial institutions for development, enhancement and rehabilitation of power plants, distribution systems and rural electrification (WB, JICA, KFW, EBRD, ...).
 - Development, negotiation and follow up of triggers and policy matrices associated with development loans from international financing institutions (IMF, AfDB, ...).

- List of Significant Negotiations / Agreements achieved:
 - Memorandum of understanding and special agreements with GE and partners for the implementation of decarbonization pathway.
 - Memoranda of understanding for the development of green hydrogen projects with DEME Concessions N.V., Siemens Energy AG, ENI.
 - Egyptian Saudi Interconnection project: interconnection agreement, interconnection operation agreement, commercial agreement.
 - Pan Arab Electricity Market Agreements: Interconnection Agreement, Interconnection Operation Agreement, Commercial Agreement.
 - Egyptian – Cypriot interconnection project memorandum of understanding (MoU) and framework agreement (FA).
 - ENI – 1000MW PV project MoU.
 - MHPS contract for the rehabilitation and upgrade of 6 gas turbines, 250MW each, to improve efficiency, increase output and reduce emissions.
 - JICA loan agreement (LA) for Egyptian Electricity Sector rehabilitation project.
 - Marubeni-Sewedy 250MW windfarm MoU.
 - Toyota-Tsucho 250MW windfarm project MoU.