MAHMOUD ALAAELDIN

SENIOR ELECTRICAL ENGINEER

mam.aladdin@gmail.com| +20 100 424 6863 | Skype ID: live:mam.aladdin_1
https://www.linkedin.com/in/mahmoud-alaaeldin-55a549109/

PROFESSIONAL STATEMENT

Holding a B.Sc. in Electrical Engineering (assessed by NZQA at Level 7), I have 13+ years of experience as an electrical engineer. I implement complex electrical systems and operations for large construction projects, railway signalling, oil and gas field on-shore facilities, industrial plant, equipment automation and more —evaluating systems' safety, reliability and performance.

I am highly skilled in electrical system design utilising various CAD and engineering software, also providing inputs for as-built drawings. Furthermore, I demonstrate strong problem-solving skills and the ability to identify high-quality solutions to technical issues. The use of project management software assists me in navigating tasks and supports my organisational and planning competence. With solid relationship management ability, I understand that not everyone sees things the same way; when differences occur with clients, engineers and contractors, I tactfully bring people together to resolve issues by ensuring everyone is heard. I use the same approach with the technicians and engineers I supervise, working together to overcome challenges. Passionate about my career, it is with a sense of achievement that I seek a work challenge.

KEY LEADERSHIP COMPETENCIES

LEADERSHIP – GROWS A POSITIVE TEAM CULTURE

- Demonstrates advanced electrical engineering experience and expertise
- Initiates a collaborative leadership style—working together to overcome challenges
- Consistently leads by example, exemplifying high professional and ethical values
- Establishes clear project objectives and expectations—ensures everyone is on the same page

COMMUNICATION

- Open-minded and 'available', demonstrating positivity and clarity
- Strong verbal and written communication—articulates messages clearly and concisely
- Actively listens, displays understanding for different viewpoints—forthright, when necessary

RELATIONSHIP MANAGEMENT

- Cultivates and maintains positive relationships—developing a healthy and friendly project 'culture', in which everyone feels like their work and point-of-view is valued
- Demonstrates diplomacy and tact; able to overcome challenges
- Establishes constant communication among project stakeholders

KEY TECHNICAL COMPETENCIES

- B.Sc. in electrical engineering – 13 years' experience
- Commercial, construction & industrial automation
- Installations, fault finding, testing & commissioning
- Pre-planning & design
- Reviews, inputs and approves as-built drawings
- Scope of work preparation
- Resource forecasting & allocation
- Budget/cost set up and tracking
- Change orders and claims analysis
- Delivery management
- Quality control & general reporting
- Project closing
- AutoCAD, Revit MEP, ETAP and EPlan, Caneco BT, MATAB, DIALUX, SIMARIS
- PLC/HMI programming

KEY PERSONAL COMPETENCIES

- Leadership – coordinating and supervising
- Team worker
- Collaborative with relationship-orientated attitude
- Strong communications – written & verbal
- Analytical
- Meticulous – strong attention to detail
- Ability to trouble shoot and deal with complexity
- Organisation and planning
- Accountable – integrity
- Prioritising – remains flexible
- Diplomatic and calm under pressure
- Conflict management and resolution
- Engages in professional development opportunties

PROFESSIONAL QUALIFICATIONS

ALEXANDRIA UNIVERSITY, Arabic Republic of Egypt
B.Sc. in ELECTRICAL ENGINEERING major: POWER & MACHINES **June – 2008**
Assessed by the New Zealand Qualifications Authority (NZQA) at Level 7 – bachelor's degree

PROFESSIONAL REGISTRATIONS & MEMBERSHIPS

MEMBER OF ENGINEERING NZ – INSTITUTE OF ENGINEERING PROFESSIONALS **2021**

REGISTERED WITH THE SYNDICATE OF ENGINEERS – Egypt **2008**

EMPLOYMENT HISTORY

ENGINEERING CONSULTANTS GROUP S.A. – Cairo, Egypt https://www.ecgsa.com/
SENIOR ELECTRICAL ENGINEER **Feb 2021 – Present**

- Senior electrical engineer on 2 luxury hotels projects
- Studies drawings, specifications and contractual obligations, keeping abreast of all revisions
- Plans/schedules work priorities - monitoring work of junior engineers and site supervisors
- Produces standard reports, progress reports and final acceptance and completion report
- Produces programs, method statements, risk assessments, health & safety information and as-built information
- Monitors, reviews, comments and reports on progress payments, quality control and safety
- Prepares draft correspondence for final approval by the construction manager/chief engineer
- Assists with pre-tender and pre-construction contracts, providing input for change orders and claims analysis
- Reviews and approves the as-built drawings and contractors' valuations payments for final approval
- Supervises commissioning and start-up activities

SIEMENS MOBILITY LLC – Cairo, Egypt https://www.mobility.siemens.com/eg/en.html
SIGNALLING INSTALLATION LEADER - *signalling upgrade of the Benha to Port Said Railway* **Nov 2018 – Oct 2020**

- Coordinated and supervised the installation of signalling systems such as level crossing barrier drives, road signals, track circuit, point machines main signals and connection boxes
- Managed and supervised the work of 4 electrical supervisors and approx. 20 electrical technicians
- Project management and site status reports
- Planning and requisition of resources and materials—quantity and quality inspections
- Inputs for as-built drawings
- Established and monitored work instructions, delivering progress reports/field instruction
- Testing and commissioning according to specification and design documents

ROWAD MODERN ENGINEERING (RME) – Mansoura, Egypt https://rowad-rme.com/
SENIOR ELECTRICAL ENGINEER **Jul 2018 – Oct 2018**

- Coordinated and supervised the installation of power transformers, 220kv GIS and 500kv GIS, the power supply, low voltage equipment and connections to the national electricity provider
- Installation, adaptation, termination, testing and commissioning for new 500/220/66/22kv GIS substation
- Planning and requisition of human resources and materials—supervising electrical technicians
- Project scheduling, progress reporting and site status reports for management

RELIABLE TECHNICAL SERVICES (RTS) – Cairo, Egypt https://rts-eg.com/
SENIOR ELECTRICAL ENGINEER **Mar 2018 – May 2018**

- Coordinated and supervised installations of lighting, LV distribution, metering and protection, standby/emergency power systems, generators and UPS systems, lightning protection and earthing systems, LV and comms. cable containment systems
- Managed and supervised electrical technicians

SAB FOR ENGINEERING & CONSTRUCTION – Alexandria, Egypt https://sabegypt.com/
SENIOR ELECTRICAL ENGINEER **Dec 2017 – Feb 2018**

- Design and specification of the following systems:
- Lighting, LV distribution, metering and protection, standby/emergency power systems, generators and UPS systems, lightning protection and earthing systems, LV and comms. cable containment systems

ASEC AUTOMATION – Cairo, Egypt http://www.asecautomation.com/
SENIOR ELECTRICAL ENGINEER **Aug 2011 – Nov 2017**

- Planned, scheduled, and organised electrical technicians to meet the schedule of works
- Regular collaboration between clients, architects and consultants—keeping them well-informed
- Resolved any technical difficulties and issues that may arise
- Oversaw the selection and requisition of materials for use in the construction/maintenance—checking the quality
- Analysed power systems (SLD, LFA, SCA, VD, cable sizing, motor starting, protection coordination and harmonic analysis)
- Designed LVSG, LVDB, MCC, PFC, ACC, AMP & DMP, cable routing and protective earthing systems
- Prepared cable, signal and I/O lists, interconnection wiring diagrams and material BOQ and purchasing requests
- Designing shop and as-built drawings
- Prepared testing and commissioning method statements
- Testing, commissioning, starting-up and troubleshooting of electrical equipment and systems

WORK ACHIEVEMENTS

Electrical design, testing, commissioning, starting-up and troubleshooting, including panel building, cable sizing, cable routing, protective earthing systems for the following projects:

Multi-compartment cement silo – KSA; Masonry cement silo of 3000 tons & new vertical cement mill – Philippines; Raw material handling area refurbishment – Cairo, Egypt; Re-vamping of a Raw Mill (Cement) – Assiut, Egypt; Coal mill and DS feeding system – Beni Suef, Egypt; Cement grinding mill – Philippines; Coal mill – Cairo, Egypt; Power station pre-commissioning – Beni Suef, Egypt; Cement product line – Algeria; Two new coals mills – Sinai, Egypt; Cement grinding mill – Philippines: Packing plant – KSA: and Zohr Development Project: gas field on-shore plant facilities, Port Said, Egypt

INDIRECT TRADING & CONTRACTING – Cairo, Egypt
ELECTRICAL ENGINEER **Nov 2010 – Jul 2011**

- Delivered high quality, detailed engineering design for electrical building services and power distribution systems, including calculations, analysis, schematics, drawings, diagrams, models, specification and documentation
- Coordinated the design approval process in consultation with other disciplines
- Management of projects from inception to post-construction
- Established and maintained collaborative relationships with internal and external stakeholders, the design team, authorities, utilities and associated organisations
- Attended meetings with the client, project team and contractors

ASEC AUTOMATION– Cairo, Egypt http://www.asecautomation.com/
JUNIOR ELECTRICAL ENGINEER **Feb 2009 – Oct 2010**

- Supervised the construction of plants, buildings, equipment, components and systems to client specifications
- Resolved any technical difficulties and issues and delivered progress reports
- Oversaw the selection and requisition of materials, quality control and on-site safety
- Checked drawings and documents used on-site for approvals and compliance with project requirements
- Ensured work carried out to approved method statements and drawings
- Conducted inspections on materials, equipment and all activities for electrical installations
- Installed MVSG, LVSG, DB, MCC, PFC, ACC, AMP, DMP and sensors
- Oversaw cable pulling and wiring connections and installed cable routing and protective earthing systems

WORK ACHIEVEMENTS

Installation of MVSG, LVSG, DB, MCC, PFC, ACC, AMP & DMP sensors, cable routing, protective earthing systems, cables pulling & wiring connections for the following projects:

Re-vamp of cement mill & main station – Alexandria, Egypt; Limestone crusher, pre-heater & kiln – Sudan; Casting cutting machine, electrical arc furnace, and ladle furnace – Suez, Egypt; and New power plant 600MW – Cairo, Egypt

ALEXANDRIA COMPANY FOR PLASTIC (ALEXPLAST) – Alexandria, Egypt https://alexplast.net/
ELECTRICAL ENGINEER **Jun 2008 – Jan 2009**

- Designed the function specification and logic diagrams
- PLC/HMI programming
- Drawing up circuit diagrams for LV electrical equipment
- Installing, testing, starting-up and troubleshooting for LV electrical equipment