Holds B. Sc., M. Sc. and PhD in Mechanical Power Engineering and has about 17 years hands-on experience working as Mechanical Expert, Assistant Professor, Technical Support and Site Engineer.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	06/01/1981
Gender	:	Male
Marital Status	:	Married
Residence	:	Cairo

EDUCATION

	:	B. Sc. in Mechanical Power Engineering, Benha University, 2003
	:	M. Sc. in Mechanical Power Engineering, Benha University, 2007
	:	PhD in Mechanical Power Engineering, Benha University, 2011

LANGUAGES

Arabic	:	Native Language
English	:	Fluent

COMPUTER SKILLS

	:	Windows, MS Office, Internet
	:	AUTOCAD Drawing
	:	Ansys-Fluent CFD Computational fluid dynamic

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From 2017 till 2020
Employer	:	EGYPTROL
Job title	:	Mechanical Expert
Employer	:	Faculty of Engineering Shoubra, Benha University
Job title	:	Assistant Professor, Mechanical Power Engineering Dept.
Dates	:	From 2009 till 2011
Employer	:	KSP Pumps
Job title	:	Technical Support

Dates	:	From 2007 till 2009
Employer	:	PACO Pumps
Job title	:	Technical Support

Dates	:	From 2003 till 2005
Employer	:	FLOWTEX Egypt
Project	:	Oil and Gas pipe lines "HHD Horizontal directional drilling"
Job title	:	Site Engineer

Field of experience :

- Provide the appropriate technical guidance and support in preparation of all "mechanical process" projects deliverables including calculation reports, design drawings, BOQ's, technical specifications, shop drawings and as built drawings.
- Review and approve "mechanical process" current projects deliverables including calculation reports, design drawings, BOQ's, technical specifications, shop drawings and as built drawings.
- Prepare, schedule, coordinate and monitor the assigned engineering projects.
- Monitor compliance to applicable codes, practices, QA/QC policies, performance standards and specifications.
- Interact daily with the clients to interpret their needs and requirements.
- Perform overall quality control of the work (schedule, plans, and personnel's performance) and report regularly on project status.
- Assign responsibilities and mentor project team.
- Cooperate and communicate effectively with project team and other project participants to provide assistance and technical support.
- Review engineering deliverables and initiate appropriate corrective actions.
- Familiar with codes for design and construction of mechanical systems (ASME, ANSI, …etc.).
- Experienced in using CFD software programs like ANSYS, and knowledge in various computer programs.
- Projects participated in:
  - 30MW Genset PP at Cement Factory, Sokoto, Nigeria.
  - Gabal Elzeit site fire fieghting System - Eastern Desert.
  - Meseda oil Field Expansion Project "10,000 bpd to 20,000 bpd".
  - New Skid Mounted Generators "Gas Engines" at BED-1, Wepco.
  - CHP Biogas Genset Power Plant 12MW - Alexandria East Waste Water Treatment Digestion.
  - DORC 14.5MW Genset PP - Lagos, Nigeria.
  - Baiji (Iraq) Fast Track Power Project.
  - Assiut 1x650MW Supercritical PP - CP-118 Package.
  - 400KV Substation at Tobruk – Libya.
  - West Assuit 1500MW Conversion PP - New H2 Plant.
  - Saint Gobain - Airliquide Sokhna - Steel Structure Design & Supervision - Storage room.
  - ANRPC New CCR Platforming unit - Steam Blow Scope.
  - Petrokareem PPF Area East Zeit Field.

- Petronefertiti Abu Redies South Sinai.
- Engineering for Installation of 2 Gas Compressors (2 x 5 MMSCFD) - Petrosannan.

- Teaching experience:
  I taught the following courses for Under graduate (from 2005 till 2012):
  - Turbo Machines.
  - Hydraulic Machines.
  - Fluid Mechanics – Fluid Dynamics.
  - Fluid Power.
  - Heat Transfer.
  - Trainer for CFD course (FLUENT Software) .
  - Engineering Drawing.
  - Axial and Centrifugal compressors (Post graduate 2012).

- Training experience:
  I taught the following training courses for Kuwait Oil Company KOC Field Engineers:
  - Pumps maintenance and troubleshooting.
  - Gas compressors operation and maintenance.
  - Oil Field Water Treatment Course.
  - Maintaining pumps course.
  - Protection relay maintenance application & testing.
  - Failure Analysis Methodologies for Mechanical Engineers.
  - Gas Lift Management.
  - Purging procedures in Booster Stations.
  - Construction Management.
  - Valves (Selection, Maintenance and repair).

- CFD Skills:
  - Good experience with Ansys-fluent CFD package in simulating:
    - ❖ Fluid flow problems.
    - ❖ Heat Transfer, Multi phase flow models and Combustion models.
    - ❖ Turbo machines (Unsteady Rotor - Stator Interaction RSI).
    - ❖ Combustion.
  - Good experience with Design, Drawing and Grid generation software:
    - ❖ Gambit Software.
    - ❖ ICEM CFD.
    - ❖ Blade generator.
    - ❖ Turbo-Grid.
    - ❖ CF Turbo (Centrifugal turbo machine design software).

- Consultation Projects:
  - CFD simulation for a turbo-prop gas turbine engine components (compressor, combustor, turbine and free turbine).
  - Improving the performance for multistage centrifugal pumps for IMPOAS pump company, using FLUENT for predict pump performance curve.
  - Using FLUENT software for predict the cause of erosion Problem in a T spool, KARONE Petroleum Company.
  - CFD analysis for medium volt electric cable surface temperature in

an Underground duct bank raceway for Suez Steel factory.
- Using FLUENT software for predicting and enhancing air and CO2 distribution in underground car park, SHAKER consultant.