

Holds a B. Sc. in Mechanical Power Engineering and has about 8 years hands-on experience working in design, technical office and fire protection.

PERSONAL DATA

Nationality : Egyptian/American
Birth Date : 25/10/1986
Gender : Male
Residence : Heliopolis, Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2009

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point, Access), Internet
: MS Visio
: OpenOffice Writer word processor
: CAD: Autodesk Inventor, SolidWorks, SolidEdge, AutoCAD
: Hydraulic Networks Analysis: Elite Software (Fire), EPANET
: Matlab, Visual Basic

TRAINING COURSES AND CERTIFICATIONS

- : PMI's Certified Associate in Project Management (CAPM):
 - A global credential governed by the Project Management Institute (PMI), PA, USA.
 - Demonstrates the certification holder's understanding of the fundamental knowledge, terminology and processes of effective project management.
 - Acknowledges the professional dedication of individuals who contribute to project teams
- : NFPA Certified Fire Inspector (CFI-I):
 - A professional certification by the National Fire Protection Association (NFPA), MA, USA, geared toward individuals engaged in code enforcement activities who meet the requirements of NFPA 1031: Standard for Professional Qualifications for Fire Inspector and Plan

Examiner.

- Ensures proficiency in the use of NFPA codes and standards and provides evidence of competence in utilizing NFPA 1, NFPA 13, NFPA 25, NFPA 72 and NFPA 101.
- : Certified Fire Protection Specialist (CFPS):
 - A personnel certification program administered by the National Fire Protection Association (NFPA), MA, USA.
 - Internationally recognized as a mark of achievement within the fire protection field.
 - Accredited by the American National Standards Institute (ANSI) based on the international standard ISO 17024.
- : Certified LabVIEW Architect (CLA): The highest level of certification available from National Instruments (NI), TX, USA. Signifies the ability to lead complex projects from conception through completion. Demonstrates mastery not only in the technical aspects of LabVIEW*, but also in the ability to implement the most efficient solution in a team environment.

*LabVIEW is a highly productive development environment for creating custom applications that interact with real-world data or signals. It is the same programming software used by the world's most innovative scientists and engineers in virtually every industry, powering feats of engineering such as the Large Hadron Collider, a machine that is fundamentally impacting our understanding of the laws of physics.
- : NI Certified Professional Instructor (CPI): Credential holders are professionals who have the ability to clearly articulate concepts to adult learners and who are qualified both technically and instructionally.
- : Technical courses:
 - Buckeye Fire Equipment Company (Dec. 2010):
 - Technical Seminar in Foam Concentrates & Foam Systems:
 - Foam concentrates.
 - Foam proportioning.
 - Foam-water sprinkler systems.
 - Heli-decks protection.
 - Aircraft hangars fire protection.
 - Fuel storage tanks fire protection.
 - Fire protection of loading racks.
 - Tyco Safety Products (Jan. 2010):
 - International Certification Training in HFC-227ea (FM200) clean agent fire suppression systems:
 - Hardware.
 - Design.
 - Installation and commissioning.
 - Maintenance.
 - International Certification Training in Kitchen Knight II restaurant fire suppression system (Pre-engineered wet chemical system):
 - Hardware.
 - Design.
 - Installation.
 - Servicing.

- CAD: Inventor 11 at Ain Shams University (Jan. 2007).
- : Marketing & Products Launching Seminars:
 - Fike Corporation (May 2011): HFC-125 clean agent fire suppression system (E-CARO).
 - Fike Corporation (Dec. 2010): IG-55 fire suppression system (PROINERT).
 - Buckeye Fire Equipment Company (Dec. 2010): Introductory presentation to the companies products.
 - Dupont (Dec. 2010): Clean agent fire protection with Hydroflourocarbons.
 - Fireater, Tyco Safety products (Dec. 2010): HFC-227ea (FM200) clean agent fire suppression systems.
 - Fike Corporation (Sep. 2010): Product launch: Impulse Technology.
 - Notifier (Jun. 2010): Competitive advantages of Notifier's fire alarm systems from the specifications point of view.
 - Reliable Automatic Sprinkler Co. (Mar. 2010): New products presentation.
 - Notifier (Mar. 2010): Competitive advantages of Notifier's fire alarm systems from the convenience and flexibility points of view.
- : Other courses:
 - Zedny – Cairo, Aug. 2008 (4 sessions):
 - Presentation skills:
 - Preparing the presentation.
 - Preparing the presenter.
 - Handling the audience.
 - Role playing.
 - Zedny – Cairo, Jul. 2008 (6 sessions):
 - Communication skills:
 - Principles of communication.
 - Social matrix.
 - Emotional intelligence.
 - Men are from Mars & women are from Venus.
 - Zedny – Cairo, Jul. 2008 (1 training day):
 - Creative Thinking.
 - Zedny – Cairo, Jul. 2008 (6 sessions):
 - Interpersonal skills:
 - Leadership.
 - The seven challenges to communicate efficiently.
 - Time management.
 - Mind mapping.
 - Planning.
 - Canadian Training Center – Cairo, Jun. 2008 (5 sessions):
 - Power Human Energy (PHE)TM: Dr. Ibrahim El Fiky (Level 1).
- : Undergraduate trainings:
 - At ABB, 10th of Ramadan, Aug. 2008 (7 days):
 - Metal and Plastic Factory.
 - Sheet Metal Work Factory.
 - Shop Drawings Office.
 - Egypt Air – Cairo, Jul. 2007 (1 month):
 - Ground Transportation Department.
 - Olympic Group – Cairo, Jul. 2003 & Jul. 2004 (each 1 month):
 - IT Department:

- Assigned to write a workflow processing code.
 - Hardware and networking.
- : English: IELTS Score: 8.0 (2015).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2012 till now
- Employer** : Electrolux, 10th of Ramadan Industrial City, Egypt
- Job title** : Senior Engineer, R&D department
- Job Description** :
- MANUFACTURING FIELD:
 - Lab Development:
 - Increased the lab's testing capacity to more than 350% through careful analysis of productivity bottlenecks and seeking continuous improvement opportunities.
 - Reduced pre-existing measurement inaccuracies from +/-10% to +/-2% without requiring any investments through the application of solid knowledge of instrumentation, measurement theories, sources of measurement errors, grounding, and noise reduction.
 - Implemented the EU state-of-the-art energy efficiency measurement methods adopted in 2013.
 - Designed modular ATEs with common controllers delivering unprecedented extensibility opportunities with absolutely no coding or system downtime. Existing systems now have already been expanded beyond 200% of their customer specified capacity upon project launch.
 - Delivered cost savings of up to \$5000 per test rig through optimizing the utilization of common resources.
 - Provided mentorship to colleagues until they earned National Instruments certification.
 - Engineering analysis:
 - Performed heat transfer analyses.
 - Developed mathematical models to identify the most appropriate product development criteria.
 - Analyzed input from aftersales customer service regarding common complaints, identified root causes using scientific methods and identified the most effective corrective actions.
 - Lab accreditation:
 - Led the activities of qualifying the R&D labs for joining the IECEE CB Scheme as a CTF.
 - Directed compliance with the relevant clauses of ISO17025.
 - Provided assistance to the lab-team in identifying vendors and service providers for lab instruments, calibration services, etc.
 - Products Certification:
 - Acted as the company's central technical authority for standard compliance issues.
 - Supported product development activities by ensuring that product target specifications and R&D adopted new technologies are in-line with the mandatory standards of the target market.
 - Maintained active relationships and healthy channels with third party labs, approving authorities and notified bodies.

- Certified the company's production for regional and overseas markets as specified by the corporate's business development plans.
- Regulatory affairs:
 - Followed up the national & international legislations that could impact the industry.
 - Analyzed potential impact on the company's product line range and prepared presentations to articulate conclusions to the management team in order to establish long-term vision of the industry trends.
 - Proposed short and long term action plans to align with international regulation updates.
 - Represented the company in communications with expert workgroups & industrial associations.
 - Participated in and influenced the local standardization committees.
- FIRE PROTECTION FIELD:
 - Managed the conformity of the system design to the life safety and fire protection regulatory requirements and to the relevant technical NFPA standards in a variety of complex projects.
 - Defined projects specifications and ensured compliance with the regulated industry's standard requirements to warrant smooth system acceptance upon completion.
 - Led code compliance affairs and oversaw the design of integrated fire protection strategies for a diverse range of projects ranging administrative offices to aircraft hangars.
 - Conveyed industry knowledge through delivering advanced training courses in effective integrated fire protection to mechanical engineers and architects.
 - Dealt with a multitude of fire suppression systems including but not limited to water based systems, foam systems, chemical and inert gaseous agent extinguishing systems, and wet chemical systems.

Dates : From 2012 till now
Employer : Fire Zone, Alexandria, Egypt
Job title : Independent Fire Protection Consultant
Job Description : Provided code compliance consultations and standards guidance regarding the design and installation aspects for fire protection projects in the following fields:

- Electrical Stations.
- Touristic Resorts.
- Hospitals.
- Storage Warehouses.
- Storage Silos.
- Pharmaceutical Factories.
- Production Factories.

Dates : From 2011 till 2013
Employer : Hydro Consult, Cairo, Egypt
Job title : Part-time Technical Advisor, Fire Protection

Job Description : Provided consultations and coaching services for engineering teams designing the fire extinguishing systems for:

- Oil and gas facilities.
- Commercial buildings.
- Water treatment stations.

Dates : From 2011 till 2012

Employer : Engineering Consultants Group (ECG), Cairo, Egypt

Job title : Engineer, Plumbing & Firefighting Department

Job Description :

- Conceptualized fire suppression systems designs.
- Identified and analyzed technical alternatives with a full cost benefit review.
- Formalized designs, wrote projects specifications and submitted tender drawings.
- Provided consultations and answers to code questions.

Dates : From Sep. 2009 till Jun. 2011

Employer : Watania Group of Companies – Cairo

Job title : Technical Office Engineer

Job Description :

- Provided business development support.
- Estimated projects costs and issued quotations to client.
- Wrote proposals and offered technical support throughout the project execution phases.
- Reviewed projects specifications and submitted compliance sheets and gap analyses.
- Prepared and submitted preliminary design plans and working drawings or relevant schematics.
- Performed hydraulic calculations.
- Reviewed listing and certification information and selected the appropriate hardware and system components for specific projects.
- Provided technical support and training internally to peers in the company's various departments and externally to the company's clients.

Further professional activities:

Teaching seminars:

The active protection of aircraft Hangars, Construction Development Center (CDC), Mar. 2010 (3 hours):

- Aircraft hangars classification.
- The selection of appropriate fire suppression system.
- Design criteria.
- Case study using foam-water deluge sprinkler system.

Field of experience :

- 8 years experience in tailoring cost-effective standard compliant solutions for highly challenging applications.
- Certified LabVIEW Architect with 5 years experience in developing lab facilities, automating product safety and product performance test activities, building and commissioning test rigs using NI and/or third-party hardware.
- Fire safety expert and a certified professional by NFPA.

- Proficient compliance analyst with demonstrated skills in dealing with international standards.
- Competent authority in product certification.
- Knowledgeable thermo-fluid enthusiast.