

# Ali Ahmed Ali El-Ashery

2, Ibrahim Radwan St, Mesla, Matariya, Cairo, Egypt

**Mobile no:** (02)010 90 16 11 32, **E-mail:** alielashery@cu.edu.eg

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## Research Areas of Interest

- Metal joining (welding, brazing and soldering).
- Material testing and inspection.
- Functional nanomaterials for energy storage and conversion.

## Education:

- **March 2014 to date: Enrolled to get M.Sc. in Metallurgical Engineering, Cairo University.**

Premaster courses: GPA 3.6 / 4

- **September 2008-July 2013: Bachelor of Engineering, Cairo University, Egypt.**

Major: Metallurgical and Materials Engineering.

Overall Rank is the **second** (Grade: **Very good**).

- **Graduation Project:** "Preparation and characterization of Nano-Porous Anodic Aluminum Oxide Template"

Grade: **Distinction**.

## Career Experience

- **June 2013 to date** **Teaching Assistant** at Faculty of Engineering, department of Mining, Petroleum and Metallurgical Engineering Department, Cairo University, Giza.

### Participating in giving classes in the following courses:

- Material science and engineering.
- Mineral processing.
- Theory of elasticity and plasticity.
- Heat transfer.
- Physical metallurgy.
- Destructive and non-destructive testing.
- Metal forming
- Welding.

- **Jan 2015 to date** **Lab Engineer** in mechanical and testing lab (MTL), Faculty of Engineering, department of metallurgical engineering, Cairo university, Giza.

### Responsibilities:

- **Supervision** of lab activities.
- **Preparing** and reviewing technical reports.
- **Determination** of test requirements of each case according to related standard such as AWS D1.1, ASME IX, ASME II, EN 10025, EN 10027, API (5L, 5CT, 5D), ISO 898-1, ISO 898-2, ASTM specifications.... etc.
- **Deputy** of lab Technical manager (Prof.Dr **Raafat Elkoussy**).

- **Participated** in several failure analysis cases of several companies such as: (PETROBEL, Tubescope, POSS, Ezz Steel, GS engineering & construction, *Baker Hughes*, Trust petroleum services, *General Petroleum Company*).

## Certifications

- AutoCAD 2013 2D  
Certificate No. 1398604176  
Training Center: ISI Academy, manyal.
- Measurements of Uncertainty  
National Institute for Standards (NIS).

## Conferences Attended

- Welding and Failure Analysis of Engineering Materials, Luxor, Egypt 2015.  
published paper title is “**Novel Cost-Effective Welding Procedures for Ductile Iron**”
- International Conference on Applied Mechanics and Mechanical Engineering, AMME-17, Military Technical College, Kobry El-Kobbah, Cairo, Egypt 2016.  
published paper title is “**Microstructure, hardness and impact toughness of surface-nanodispersed and friction stir processed aluminum alloy AA7075**”

## Training

- August 2012      **Egypt Aluminum Company (EGAL)**  
**Trainee engineer**  
Trained in extraction and semi continuous casting sectors
- July 2012      **Central Metallurgical Research & Development Institute (CMRDI)**  
**Trainee engineer**  
Trained in casting technology and ferrous alloys, mechanical testing, welding workshop, advanced furnaces, corrosion and coating departments and services laboratory.
- July 2011      **Egyptian iron and steel company**  
**Trainee engineer**  
Trained in sintering, furnaces and cold rolling sectors.
- July 2010      **Cairo Oil Refining Company (CORC)**  
**Trainee engineer**  
Trained in German Cairo welding center, inspection sector and maintenance sector

## SKILLS

### Computer skills:

- Knowledge of Computer Operations and Concepts
- MSWord, Excel, PowerPoint, Internet, Email
- MATLAB, GW BASIC
- AutoCAD 2D, Photoshop CS6

### Language skills:

- Arabic: Mother Tongue
- English: Good command in (writing and speaking), preparing for IELTS test