





## PERSONAL INFORMATION

**Samah Mamdouh Mostafa Bekhit**

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 [Samah-mamdouh@hotmail.com](mailto:Samah-mamdouh@hotmail.com)

Sex female | Date of birth 16/01/1989 | Nationality Egyptian

## WORK EXPERIENCE

November 2016 –present

**Assistant Researcher**

Central Metallurgical Research and development Institute  
1 El Felezat St, Cairo, Egypt

Working in a research team in a research project entitled

- "synthesis of selenium, metal selenides and their composites: toward high-performance cathode materials for Li-Se battery as a practical candidate for energy storage" funded by academy of scientific research and technology (two years)
- Electrodeposition of Silicon Thin Films from Ionic Liquids

Involving in different industrial issues i.e. evaluation of different inhibitors for petrochemical industries, measuring corrosion rate of different metals under different conditions

July 2012 - November 2016

**Research Assistant**

Central Metallurgical Research and development Institute  
1 El felezat St, Cairo, Egypt

Participating and doing the experimental work of different research projects entitled,

- "Development of new magnesium alloys for biomedical applications" funded by academy of scientific research and technology (two years)
- Influence of partial or total replacement of molybdenum by tungsten on the corrosion resistance of AISI 316 in sea water
- Corrosion inhibition of copper and its alloys in non pollutes and sulfide polluted salt water

May 2012-June 2012

**R&D engineer in the Egyptian textiles for dyeing and finishing**

Shoubra el khayma, Cairo, Egypt.

Developing the company system to self-control system, rationalize the consumption and reduce the product defects

## EDUCATION AND TRAINING

February 2018- present

**Ph.D. student in Chemical Metallurgy Engineering**

Mining, Petroleum and Metallurgy Engineering Department, Faculty of Engineering, Cairo University, Cairo, Egypt.

**Passed the Ph.D. courses in Chemical Metallurgy Engineering**

February 2017-February 2018

Mining, Petroleum and Metallurgy Engineering Department, Faculty of Engineering, Cairo University, Cairo, Egypt.

October 2012-September 2016

**M.S- Thesis Title: " Corrosion and Mechanically Assisted Corrosion of Mg–9%Al Alloy (AZ91) ", Chemical Metallurgy Engineering**

Mining, Petroleum and Metallurgy Engineering Department, Faculty of Engineering, Cairo University, Cairo, Egypt.

September 2006-May 2011

### Bachelor of Chemical Engineering

Chemical Engineering Department, Faculty of Engineering, Cairo University, Cairo, Egypt.

- Cumulative rate of appreciation: Very Good with Honour Degree
- Graduation project entitled "primary treatment of natural gas and condensate" with distinction grade

Dec 2018 (one week)

#### Training in clean room and chemistry lab.

American University in Cairo and Faculty of Science Fayoum University

- Practical training on nano fabrication and characterization
- Funded by Arab-German Young Academy (AGYA) of Sciences and Humanities

Jul 2010 (two weeks)

#### Training in the production department

Helwan factory for castings

Overview on the casting techniques

Aug 2009 (three weeks)

#### Training in the production department and laboratory

Pachin (El Obour Paints and Chemical Industries)

- Identifying different types of paints and their preparation methods
- Knowing different laboratory tests of paints produced

### PERSONAL SKILLS

Mother tongue(s)

Arabic

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	B2	B2	B2	B1
ACADEMIC IELTS- CEFR LEVEL: B2					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

Team work: working in various types of teams from research teams to volunteering teams in charity organization

Organisational / managerial skills

Good organizational and prioritization skills

Computer skills

- working experience in Microsoft Office & Microsoft Visio
- Good Internet skills
- Good knowledge in Aspen HYSYS

Other skills

Reading, Yoga, watching movies and crochet

### ADDITIONAL INFORMATION

Exams

- Scored 156 degree in the GRE quantitative section
- Scored 6.5 degree out of 9 in IELTS test

## Conferences

- participated in 4th International conference on advanced sciences (ICAS4) with poster entitled 'Mechanically assisted corrosion of Magnesium Alloy (AZ91-T6)', 2017
- participated in 5th international conference on corrosion mitigation and surface protection technologies, organized by the Egyptian corrosion society, with oral presentation on 'Effect of Heat Treatment on Corrosion behaviour of Magnesium Alloy (AZ91)', 2016
- Participated in 4th international conference on corrosion mitigation and surface protection technologies, organized by the Egyptian corrosion society, with poster entitled 'corrosion and stress corrosion cracking of magnesium alloy (AZ91)', 2015