

Eng. Yassmine Ali Marey

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Objective

Seeking to obtain a opportunity as a Fresh graduated Engineer with B.S. degree in Nuclear and Radiation Engineering, having sound knowledge in the fields of nuclear science, , nondestructive testing, radiation safety, Occupational Safety and Health and industrial applications of radioactivity in order to have to opportunity to do Master studies.

Education

B.Sc. Nuclear and Radiation Engineering
Faculty of Engineering, Alexandria University

September 2012 - June 2017
Overall Grade: Good

Graduation Project

"Material Selection, Design and Fabrication of Reference Blocks for Ultrasonic Examination of Metals and Alloys, (NDT)"
Grade: Excellent

The project gives a short review about the calibration and reference blocks used in conjunction with UT technique. Also, a complete procedure for design and fabrication of one of these blocks is given. And one of the ASME Code Section V (American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section Five) reference blocks is designed, fabricated and used to a UT piece of equipment.

Contacts Performed During the Project:

- Companies that Fabricate Metallic Products, to select a dominantly used material (carbon steel) that is utilized in fabricating PRI's (EMCON company)
- Precise Fabrication Sector to fabricate a calibration block with artificial defect (LORD Company) for surface finishing and fabricating artificial defects
- Atomic energy authority – Nuclear Metallurgy Department to make Microstructure analysis, chemical analysis and mechanical tests.
- Putting the Block in Action PETROJET Company.

Graduation Research Project

"Nuclear Fuel Design and Performance "

Grade: Excellent

One of the major topics covered in this special study is the nuclear fuel performance issues. This included the chemical, mechanical as well as irradiation issues. This was done for both normal and transient conditions.

Work Experience

- **Research Coordinator** at Nile University since **April 2019**

Responsible for:

- ✓ Coordinates and administers research study associated activities.
- ✓ Plans and Coordinates the university research study protocol, and the establishment of operating policies and procedures.
- ✓ Plans, maintains and coordinate the collection and analysis of research related data.
- ✓ Promotes research capacity building among community-based organizations and student groups.
- ✓ Develops and maintain records of research activities and prepares periodic and hoc reports as required by director of research.
- ✓ Coordinates events and activities of research office.

- **Quality Control chemist** at El-Ahram for Printing & Packing since **March 2017 to April 2019**

Responsible for:

- ✓ Ensure the quality of the negative film from the design department before Cyril making through U.V. exposing
- ✓ Ensure the quality of printing materials (polypropylene film, polyester, paper, polyamide, aluminum) and check their ink acceptance
- ✓ Monitor the quality of polyethylene film used for lamination process
- ✓ Continuous follow up to the printing process and ensuring the color shades , ink stability , written data and dimensions
- ✓ Lamination process follow up and monitoring lacquer consumption and adhesion
- ✓ Ensure slitting quality through direction and dimensions of slitting Analyzing the samples from clients in order to be applied.

- **El Ahram** has **BRC, ISO9001, ISO14001 & ISO18001 certifications** and it prints for **Unilever, Dabur, Pharco , Pharopharma, Cadbury and Dreem.**

Summer Training

- **Training on Process Instrumentation at ETRR-2, Egyptian Atomic Energy Authority (AEA) at the Nuclear Research Center in Inshas. August 2016.**

Training on instrumentation and measuring devices (Measurement and units, Pressure and differential pressure instrumentation, Water Level Instrumentation, Flow Instrumentation, Temperature Instrumentation, Vibration instrumentation Valve and control rod position)

- **Nuclear and radiation measurement in ETRR-2, Egyptian Atomic Energy Authority (AEA) at the Nuclear Research Center in Inshas. July 2016.**

The training covered the Radioactivity Measurements and Radiation Protection detectors:

- Use of gas filled detectors in radiation protection.
- Use of Gamma spectrometers (NaI and HPGe) in radiation protection.

- **Nuclear Material Authority, Cairo. August 2015.**

The training covered the preparation of manufacturing the fuel rods from uranium exploration ways, yellow cake, enrichment, till the fuel fabrication factory.

- **Menouf Water Treatment Plant. July 2014.**

The training covered the stages of water treatment and electrical and the mechanical systems of the plant.

Courses and Computer Skills

- MATLAB **Online course June 2019**
- Specialist course of Safety and Health, The National Institute for Occupational Safety and Health (NIOSH- Egypt) **February, 2018**
- Novice Training for RELAP5/SCADAP, Organized by Engineering Center, Faculty of Engineering, Alexandria University. **February, 2017**
- Fortran
- AutoCAD(2D,3D)
- MS Office (Word, Excel, PowerPoint)

Awards

The Best graduation project on Nuclear and Radiation Engineering Department, 2017

Volunteer Work

- **Participation in “Learning Is the Power” Campaign by Life Makers Organization.**

July 2012

A campaign organized to offer chances for illiterate people to learn reading and writing.

- Floating.
- Teacher Assistant in classes.

- **Member in Egypt Scholar Alex chapter**

April 2014 – September 2016

HR committee Member:

-prepare the committees description and ensures proper procedures for review and approval are met at the chapter level

-Interviewing the new applicants for the chapter committees and events

-Representing the HR committee in the idea makers committee taking the feedbacks, monitoring the work.

Marketing and Media committee Member:

I was the admin of the chapter page on the Facebook. So i was responsible for preparing the scientific material to be posted, moreover marketing the chapter events and activities.

- Egypt Scholars Inc is Nonprofit Organization and Educational Research Center, Alex chapter is one of its chapters.
<http://egyptscholars.org/programs/>

- **Nuclear Week event - Faculty of Engineering**

March 2016 – April 2016

Floating, OC & Logistics member

Nuclear week event is a national event in presence of Rosatom Russian company for nuclear reactors manufacture and Egyptian nuclear authorities.

Language Skills

- Arabic: Mother tongue.
- English: IELTS overall score 6.5
- French: Basic Knowledge.