

Mahmoud Yousry Hawary

25 H, 2nd Gate, Hada'k Al-Ahram, Giza, Egypt

Phone: +20 106 8985 721

Email: post-mahmoud.hawary@alexu.edu.eg

PROFILE

- Graduate student for a M. Sc. degree, Nuclear and Radiation Engineering Department, Faculty of Engineering, Alexandria University, Egypt.
- Interested in physics, nuclear science, and material science and engineering applications.
- Seeking a challenging position to further develop my scientific background and share my knowledge with interested students.

EDUCATION

- **M. Sc.** (graduate student), Nuclear & Radiation Engineering Department, Alexandria University, Egypt, Fall 2015.
 - Degree Expected: **Fall 2018**.
 - Grade **B+** in preliminary courses.
- **B. Sc. in Nuclear & Radiation Engineering**, Nuclear & Radiation Engineering Department, Alexandria University, Egypt, June 2014.
 - Grade 77% (**Very Good with Degree of Honor**).



EXPERIENCE

I. RESEARCH EXPERIENCE

- **Nuclear Reactors Material**
 - *Predicting the **performance of nuclear reactor fuel**. Finished the literature survey, mastered the involved code and started the parametric analysis of the involved nuclear fuel.*
- **Nuclear Reactor Analysis**
 - **Graduation Project** Title: “Optimization of Energy-Group Structure for Nuclear Reactor Analysis”, project grade: **Excellent**.
 - Developing an algorithm that self-sustains calculations to find optimum **neutron energy group structure** for any general composition and gives comparable and competitive results with other methods generated before.
- **Nuclear Power Infrastructure**
 - **Graduation Special Studies** Title: “Nuclear Power Infrastructure Development According to the IAEA Milestone Approach”, study grade: **Excellent**.
 - Reviewing the essence of the **milestone approach**, developed by IAEA in 2007, lessons learned from different IAEA review missions to the newcomers, and assessing the status of **Egypt’s nuclear program** as related to the IAEA milestone approach.

II. WORKING EXPERINCE

- **Adjunct Teaching Assistant**, Nuclear & Radiation Engineering Department, Alexandria University, January– July 2107.
 - *Electromagnetics & Plasma Physics Courses.*



III. TRAININGS, COURSES & ACTIVITIES

- **The International Forum of Energy & Industry Young Community “FORSGE- 2017”**

- An international forum held by “ROSATOM’ at Kaluga, Russia, 9-15 July, 2017.



- **RELAP Code Course**

- Department of Nuclear & Radiation Engineering, Alexandria University, Alexandria, Egypt, August 2016.



- **Nuclear Security Course**

- Department of Nuclear & Radiation Engineering, Alexandria University, Alexandria, Egypt, 14-19 September 2013.



- **Interact with Today’s World (ITW’13) Conference**

- Technical conference organized by IEEE Alexandria Student Branch, held at Hilton Alexandria, Green Plaza, Alexandria, Egypt, 10-11 September 2013.



- **Monte Carlo Method for Radiation Transport Training**

- Department of Nuclear & Radiation Engineering, Alexandria University, Alexandria Egypt, June 2013.



- **Mining and Milling of Uranium Ore Training**

- Exploratory Uranium mine at the site of Qattara Mountain, Nuclear Material Authority, Hurghada, Egypt, February 2013.



- **Nuclear Medicine Diagnosis and Therapy Training**

- Mostafa Kamel Armed Forces Hospital, Alexandria, Egypt, August 2012.



- **Nuclear Engineering and Technology Training**

- Egyptian Atomic Energy Authority (EAEA), Madenat Nasr, Cairo, Egypt, July 2012.



- **Application in Nuclear and Radiation Engineering Course**

- Middle Eastern Regional Radioisotope Center for Arab Countries, Cairo, Egypt, 1-5 July 2012.



- **“Water, Nuclear and Renewable Energies: Challenges Versus Opportunities” MEETING**

- TWAS-ARO 7th Meeting organized by The World Academy of Science held at Bibliotheca, Alexandria, Egypt, December 2011.



- **Operating Electrical Systems Training**

- Alexandria Company for Oils and Soap – Kafr Al-Shiekh Factory, Kafr Al-Shiekh, Egypt, August 2010.



IV. VOLUNTEERING EXPERIENCE

- **IEEE Nuclear and Plasma Sciences Society, Alexandria Student Chapter (IEEE | NPSS Alex SC), Egypt**

- Co-founder of the Nuclear and Plasma Sciences Society (NPSS), Alex SC, which is the first IEEE student activities related to the nuclear and plasma sciences in the world, April 2013– August 2014.
- Volunteer at the “Activities” committee, and the “Reporting and Publications” committee, October 2013 – August 2014.



COMPUTER SKILLS

- **Platforms** mac OS and Windows.
- **Applications** Microsoft Office (Word, Excel, and Power point), AutoCAD, FEHT, PC Tran and Simatic.
- **Programming** FORTRAN and Matlab.
- **Codes** NJOY, SNAP, RELAP, FUELSIM and MCNP.

LANGUAGES

- **Arabic** Mother Language
- **English** IELTS Score (6.5): Reading (7)– Listening (6.5)- Writing (6)- Speaking (5.5).
English Placement Test Score (62 of 70).

AWARDS

- Alexandria University Scholarship for Academic Excellence 2011, 2012, and 2013.

AFFILIATIONS

- Member of the Egyptian Engineering Syndicate for Professional Engineers.
- Student Member in the Nuclear and Plasma Sciences Society, IEEE.

References for Mahmoud Hawary

- **Prof. Mohamed Hassan**
Associate Professor
Nuclear and Radiation Engineering Department.
Faculty of Engineering, Alexandria University, Egypt.
Email: mohamed.hassan@alexu.edu.eg
Cell: +201113050067
- **Prof. Amr Mohamed**
Associate Professor
Center of Fundamental Physics (CFP), Zewail City of Science and Technology, Egypt.
Email: amr@zewailcity.edu.eg
Cell: +201147336633
- **Prof. Abdelfattah Soliman**
Associate Professor
Nuclear Engineering Department, King Abdulaziz University, KSA.
Email: ausoliman@kau.edu.sa
Cell: +966506038624