

PERSONAL INFORMATION

Mohamed Desoky

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WORK EXPERIENCE

01/01/2012–01/03/2013

Military Service

Egyptian Naval Force, Alexandria (Egypt)

01/05/2013–01/09/2014

Chemical Operator

Sigma Petroleum Services Company, Alexandria (Egypt)

Monitoring oil production process, operating the separation process, troubleshooting the problem in the site.

01/07/2018–31/10/2018

Researcher

Department of Chemistry, University of Turin, Turin (Italy)

Synthesis of Noval Hole Transporting Materials for Perovskite Solar Cells.

EDUCATION AND TRAINING

01/10/2018–Present

PhD in Chemistry

University Of Turin, Turin (Italy)

Design and synthesis of noval organic Hole Transporting Materials (HTMs) for Perovskite Solar Cells.

Supervisors: Prof. P. Quagliotto and Prof. G. Viscardi

01/11/2014–25/10/2017

M.Sc. in Chemistry

University of Siena, Siena (Italy)

▪ Grade: 109/110

▪ Thesis Title: "Synthesis of a new promising dye (Cat.1) for type II dye-sensitized solar cells (DSSCs)".

Role: Development of synthetic methodology for synthesis of dyes suitable for type II dye-sensitized solar cells (DSSCs).

Responsibilities:

▪ Applying the general techniques of organic and organo-metallic synthesis.

▪ Applying the general analytical techniques for characterization (NMR, MS, HPLC, GC, LC, IR, and UV-vis).

Result:

▪ The synthetic methodology was successfully obtained using one-pot multi component Heck type reaction and Cat.1 was obtained using it.

Supervisor: Prof. M. Taddei

10/01/2017–30/06/2017

Erasmus Placement Internship

Department of Chemistry, Copenhagen University, Copenhagen (Denmark)

Project title: "Catalytic desalination of sea water using carbon dioxide"

Role: Using carbon dioxide and designed organic CO₂ responsive molecules to optimize the scientific design of the desalination process.

Responsibilities:

▪ Design and synthesis and characterization of the organic CO₂ responsive molecules.

▪ Optimizing the best conditions for the desalination process.

- Testing the synthesized organic CO₂ responsive molecules for desalination.
Result:
▪ 83% irreversible desalination of sea water had been obtained.
Supervisor: Dr. Ji-Woong Lee.

19/09/2007–01/05/2011 **B.Sc. in Physics and Chemistry**
University of Alexandria, Alexandria (Egypt)
Grade: Good(70%)

01/05/2010–30/10/2010 **Intership**
ANRPIC, Alexandria (Egypt)

PERSONAL SKILLS

Mother tongue(s) Arabic

Foreign language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | C1 | C1 | C2 |
| Italian | B1 | B1 | B1 | B1 | A2 |

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

Communication skills Excellent written and verbal scientific and English communication skills.

Organisational / managerial skills ▪ Good organizational skill gained as secretary of student parliament during my bachelor degree.

Job-related skills
Organic synthesis skills:
▪ During my master project period and my erasmus internship, I became an Independent to plan my reactions and set it up and choice the best work up procedure for the purification, then characterization of the products.
Characterization and analytical chemistry skills: (able to use analytical instruments and techniques for analysis and characterization)
▪ NMR, MS, HPLC, LC, GC, IR, Melting point apparatus, and Elemental analysis).

Digital skills

| SELF-ASSESSMENT | | | | |
|------------------------|------------------|------------------|------------------|------------------|
| Information processing | Communication | Content creation | Safety | Problem-solving |
| Independent user | Independent user | Basic user | Independent user | Independent user |

Digital skills - Self-assessment grid