

AHMAD MOALLEM

Personal Details

Address: Afif el Tibi Street, Mazraa, Beirut, Lebanon

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Skills and Languages

Languages:

- Arabic (Mother Tongue).
- English (Fluent/Cambridge English Language Assessment C2 level certified).
- French (Fluent/First Language).
- Turkish (Basic Understanding, in progress).

Computer Skills: Aspen HYSYS, MatLab, Rbasic (certified by CodeAcademy), Python (certified by CodeAcademy), LabView, AutoCad, VS C++, MS Office.

Soft Skills: Hardworking, dedicated, motivated, persistent problem solver, reliable, multitasker, proactive and a team player, fast learner, proficient in technical report writing, effective communicator, thorough, skilled at presentations.

Employment History

The Turkish Foreign Policy Institute, Ankara, Turkey

(Sep 2020-Nov 2020)

Research Analyst Intern

Worked on the underlying dynamics of the Middle East.

Wrote multiple reports on Lebanon's political climate, as well as an article on the possible effects of the US presidential elections on EU-US relations.

American University of Beirut, Lebanon

(Sep 2019-Sep 2020)

Research Assistant

Worked on the selection of representative models of an original set of geological realizations, reducing uncertainty regarding the field and overall computational costs.

Was the only undergraduate in a team of graduate students to work on the implementation, analysis, and comparison of different methods in the subject.

Coauthored a paper, published in "Computational Geosciences" collaboration with Dr. Kassem Ghorayeb and Ahmad Harb, published authors.

Schlumberger, Cairo, Egypt

(Jul 2019-Sep 2019)

Field Engineer Intern on the Wireline product line

Received hands on experience regarding the upstream petroleum industry as well as all the inner workings of wireline logging operations as well as the factors behind the decisions made.

Received a standing ovation by the managers and supervisors at the technical presentation and was subsequently exempted from the remaining internship deliverables.

American University of Beirut, Lebanon

(Jun 2019-Jul 2019)

Research Intern

Worked on various particle swarm optimization algorithms and methods and gave input into well placement algorithms.

American University of Beirut, Lebanon

(Jan 2019-May 2019)

Research Assistant

Worked on well placement optimization algorithms on MatLab, used for maximizing net present value during drilling operations (for the oil industry) at the American University of Beirut.

American University of Beirut, Lebanon

(Sep 2017-Mar 2018)

Teaching Assistant

Taught thermodynamics (I and II) problem solving sessions.

Education**American University of Beirut**

(Sep 2016-Jun 2020)

Bachelor of Engineering in Chemical Engineering with High Distinction

Placed on the Dean's Honor List: Fall 2016-17, Spring 2016-17, Fall 2017-18, Spring 2017-18, Fall 2018-19, Spring 2018-2019, Fall 2019-2020, Spring 2019-2020.

Cumulative GPA: 3.98/4

Lycée Abdel Kader, Lebanon

(Sep 2015-Jun 2016)

High School Diploma (French Baccalaureate)

Nominated as school's candidate for the "Bourse d'Excellence Major"

GPA: 16.8/20

Lycée International Alexandre Dumas (Algeria)

(Sep 2014-Jun 2015)

Lycée Abdel Kader (Lebanon)

(Sep 2013-Jun 2014)

École Française Internationale de Djeddah (Saudi Arabia)

(Sep 2004-Jun 2014)

Awards and Projects Accomplished

- Designed an algorithm on MatLab, capable of optimizing heat recovery for a chemical plant based on existing stream data.
- Designed a smoothie bike, reducing energy use, which won the People's Award at the 2019 Maroun Semaan Faculty of Engineering and Architecture Maker's Fair.
- Achieved second place in Faculty of Engineering wood bridge building competition.
- Led a team at the MIT Lebanon Challenge and designed a prototype for smart fridges in an effort to handle food shortages and inefficient means of food distribution.
- Designed a functional and optimized plant to produce potassium sulfate, a fertilizer, to satisfy local market demands on Aspen HYSYS v8.6.
- Designed a device used to identify abnormal NO₂ emissions from conventional home generators in a class given by L'Oréal's 2019 Laureate for Africa and the Arab States Dr. Najat Saliba.
- Designed an eco-friendly fire suppression device to stop the spread of fires in Syrian Refugee tents in Lebanon.

Extracurricular Activities

- Leader of the media team for the Students for Sustainable Energy for All society (SSEA) at the American University of Beirut.
- Member of the American Institute of Chemical Engineers (AIChE) at the American University of Beirut.
- Treasurer of the Culinary Arts Club (CAC) at the American University of Beirut.
- Participated in the International Biodiversity Day at AUB (IBDAA) chemistry competition at the American University of Beirut.
- Tutor for middle school students in Mathematics and physics.

Interests and Activities

Sports:

- Football
- Tennis
- Basketball

Travel, Photography, Writing, History

References

Available upon request