

# Nadine El Daher

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## Profile

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## EDUCATION

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**From 08/16 to 06/20**

**American University of Beirut**

Beirut, Lebanon

Bachelor of Engineering, with an emphasis on Mechanical Engineering

- Date of Graduation: June 2020.
- Graduating GPA: 3.7/4.0, graduated with distinction.
- Relevant courses taken: Design of Thermal Systems, Energy Efficient Buildings with Good Indoor Air Quality, Heat Transfer, Renewable Energy Potential and Utilization in Green Buildings, Solar Energy, Thermodynamics.

**From 09/13 to 06/16**

**Collège du Sacré-Coeur**

Beirut, Lebanon

- French Baccalaureate, with an emphasis on Mathematics (high honors)
- Lebanese Baccalaureate, with an emphasis on General Sciences (SG)

## EXPERIENCE

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**From 10/21 to 10/22**

**Almabani General Contractors**

Dbayeh, Lebanon

Position held: Estimation Engineer

- Prepared BOQs and quantity takeoff for different mechanical networks.
- Prepared and sent packages (BOQ, drawings and specifications) to suppliers for quotation and evaluated the offer against specs and drawings to include in the final tender price.
- Followed up with suppliers and managed daily correspondence.
- Priced mechanical works for various large-scale projects on Candy and Excel.

**From 08/21 to 10/21**

**Ark Energy**

Beirut, Lebanon

Position held: Energy Consultant

- Supported the team with their different tasks.
- Worked on the business development sales channel, customer segmentation and client mapping for the product of the company.
- Conducted benchmarking and developed tools for the company.
- Focused on the digitalization of energy management.
- Performed energy audits and M&V (Measurement and Verification) of energy savings for high-profile clients in GCC countries.

**From 03/21 to 07/21**

**F.D Consultants and Management**

Beirut, Lebanon

Position held: Mechanical Design Engineer

- Performed the mechanical design of residential buildings in various locations across Lebanon.

From 07/19 to 08/19

Kamal J. Sioufi & Associates

Beirut, Lebanon

Position held: Mechanical Design Engineer Intern

- Assisted to the mechanical works in Tower FortyFour, the second tallest building in Lebanon built to date.
- Performed the mechanical design of a residential apartment: water supply, drainage, ventilation, heating, cooling, and firefighting systems.
- Performed load calculations and sizing of the pipes used in the various systems.
- Learned about LEED certified buildings and assisted to the testing and commissioning of Tower FortyFour.

## WORKSHOPS AND CERTIFICATIONS

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- **HAP Training Course**, Order of the Engineers and Architects of Lebanon, November 2021  
This course teaches the fundamentals of HAP (Hourly Analysis Program) and how to determine the heating and cooling loads for buildings.
- **Renewable Energy and Green Building Entrepreneurship**, Duke University (Coursera), May 2021  
This course teaches how to define key business opportunities, challenges, and potential solutions in the renewable energy and green building sectors; analyze a successful business in renewable energy or green building; and identify problems that could be solved with renewable energy or green building products or services.
- **Effective Energy Management in New and Existing Buildings**, ASHRAE, November 2020  
This course offers techniques for the adoption of energy optimization and the introduction of specialized energy-saving systems in the Middle East. The training teaches about energy management principles for reducing overall energy costs by providing procedures and programs essential for energy efficiency, maintenance, management, and monitoring. The course provides numerous how-to solutions from successful energy managers who achieved a reduction in energy consumption by implementing sustainable energy technologies.
- **High Performance Healthcare Facilities Design**, ASHRAE, November 2020  
This course addresses the role of HVAC systems in helping to reduce Hospital Associated Infections (HAI), explaining airborne vs contact transmission. It also describes each of the different processes from the perspective of particle physics, including hospital psychrometrics, air changes requirement, and level filtration. It also teaches how to define the ventilation system design requirements as per Standard ANSI/ ASHRAE/ ASHRAE 170-2017 including the compliance requirements.

## SKILLS

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**Languages:** Fluent in English, French and Arabic with basic knowledge in Spanish, Italian, Syriac, and Persian.

**Computer Skills:** MS Word, Excel, PowerPoint, Publisher, HAP, Ductulator, Creo Parametric, AutoCAD, Solidworks, EES, LabVIEW, MATLAB, Simulink, Python, CCS Candy, Bluebeam Revu.

**Technical Skills:** Technical Writing, Optimization, Programming.

**Soft Skills:** Adaptability, Time Management, Problem-Solving, Responsibility.

**Interests:** Research, Reading, Baking, Art, Cycling, Travel.