

Ramzi Rawdah el Balah
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Career Profile

I am a highly motivated and detail-oriented third-year student pursuing my BE in Civil and Environmental Engineering at the American University of Beirut (AUB). I have shown interest in construction and structures from a young age as I have spent countless hours watching nearby construction sites. Additionally, I have gotten in contact with construction workers and inquired about the purpose of using various approaches in construction. Recently, I have gained hands-on technical experience in maintaining, restoring and modifying vehicles. Furthermore, I have developed skills in technical report writing and data analysis, as well as strong teamwork and leadership skills.

Technical Knowledge

- I have a working knowledge of the following software: Microsoft Office, Google Tools, Primavera, Python, AutoCAD, Revit, EPANET, and SYNCHRO.
- Great knowledge of soil mechanics and foundation design.
- Good understanding of concrete and steel structures.
- Able to set schedules while giving each activity proper time and float.
- Deep Understanding of hydraulics, hydrology, and water treatment.
- I have the ability to understand the mechanical basis and structure of vehicles, computers, and appliances as well as hands-on experience in repairing the hardware of such equipment.

Education

- **American University of Beirut, Civil and Environmental Engineering, (Sep 2021-Present)**
- **International College – Beirut, Lebanese Baccalaureate, General Science (Sep 2004- June 2020)**

Personal Skills

- Strong verbal and written communication skills.
- Native proficiency in English and Arabic.
- I have advanced presentation skills.
- Use creative and innovative strategies to solve problems efficiently.
- The ability to present high-quality work despite time constraints.
- Work on multiple tasks at once.
- Quick and motivated learner.
- The ability to lead and work hand in hand with a team.

Volunteer Experience

I have completed over 70 hours of community service with various NGOs including:

- **Makhzoumi Foundation:** I organized and participated in a soup kitchen where I helped prepare and provide families in need with food during Ramadan (2018-2019)
- **Beach Cleaning:** participated in a beach cleaning in Amchit and Beirut (2017-2018)
- **Dar Al Aytam:** participated in activities entertaining orphaned children for two consecutive years (2014-2016)

Awards and Projects

- **EPANET Project – AUB (2022-2023)**

This project allowed me to design a water system for an entire village while taking into consideration the type of each building and its required amount of water. Additionally, I developed skills in designing pipes and placement of pumps to deliver water in an efficient way.

- **Model Silo Project - AUB (2021-2022)**

This project allowed me to use my knowledge about concrete to design a concrete mix and a mold that could be easily removed. One of my goals in this project was to test the use of broken glass instead of coarse aggregates in terms of strength and looks.

- **Model Bridge Project - AUB (2020-2021)**

Throughout this project, I learned the basics design of structures and how material deforms under load. The bridge I built was constructed from only popsicle sticks and glue and it was able to carry around 40 kilograms before the glue failed.

- **Interdisciplinary Project Award - International College (2018 - 2019)**

In this project, I studied how many plastic water bottles are being thrown away per day in my school. In addition, I suggested installing water fountains that can refill single-use bottles and selling reusable water bottles at the school's bookstore for low prices. I provided the school with the environmental and economic advantages of adopting my proposed system and explained to the students the financial benefits they can achieve in only 2 weeks after buying the reusable bottles. My project allowed the school to decrease the number of wasted bottles by a great margin.

References available upon request