

# MYRIAM EL CHAKAR

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## EDUCATION

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### NOTRE DAME UNIVERSITY – LOUAIZE (NDU)

Bachelor of Engineering (ABET Accredited Program)  
Major in Mechanical Engineering  
Cumulative GPA: 3.65/4.0; Dean's List 2020-2024

Zouk Mosbeh, Lebanon  
2020 – 2024

### POLITECNICO DI TORINO

Erasmus+ Scholarship for Exchange Program of 5 months  
Bachelor of Science in Automotive Engineering  
Courses Taken: Motor Vehicle Design, Automatic Controls, Fundamentals of Machine Design

Turin, Italy  
Oct 2023 – Mar 2024

### COLLÈGE SAINT JOSEPH – ANTOURA

French and Lebanese Baccalaureate  
Double Baccalaureate in General Sciences; Graduated with highest honors

Antoura, Lebanon  
2019 – 2020

## WORK EXPERIENCE

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### MITSULIFT LEBANON S.A.L.

Intern

Dbayeh, Lebanon  
Jul 2024 – Aug 2024

- Got acquainted with the operations and processes of the following departments: Sales, Engineering, Installation, After Sales and Quality Control
- Worked and presented a project consisting of doing the detailed 3D design of an elevator installed at the company using SolidWorks
- Worked and presented a project about the leveling process of an elevator

### MAXLINE S.A.R.L.

Design and Technician Intern

Roumich, Lebanon  
Jun 2024

- Assisted engineers in the design of conveyor systems for many projects using Inventor Autodesk (sheet metal parts, machined parts, assemblies, 2D drawings...)
- Helped technicians in assembling many conveyor systems for many projects in the company's workshop

### VOLKSWAGEN SERVICE CENTER, ETS. F.A. KETTANEH S.A., LEBANON

Technician/Mechanic Intern

Dora, Lebanon  
Sep 2023

- Worked first in the quick service division of the garage for general inspection (oil, filters, brakes...)
- Aided then employees in more advanced problems like misfires in the engine due to spark plugs, ignition coils or fuel injectors, change of bushes, disassembling and assembling an engine...

### MOULIN D'OR – Ajaltoun Branch

Cashier

Ajaltoun, Lebanon  
Jun 2022 – Jul 2022

### PRIVATE TUTORING

Tutor in Mathematics, Physics, Chemistry, French

Keserwan, Lebanon  
2022 – Present

## UNIVERSITY PROJECTS

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### GROUND-EFFECT DIFFUSER APPLICATION (NDU SENIOR PROJECT)

Sep 2023 – Dec 2024

- Designed, studied and simulated on ANSYS Fluent several types, configurations and dimensions of ground-effect diffusers on a scaled-down inverted Ahmed body
- Performed wind tunnel tests on 3D printed models

### STATIC AND FATIGUE ANALYSIS OF A TORSION BAR WITHIN A REAR TRAILING-ARM SUSPENSION (NDU)

Apr 2024 – May 2024

- Studied the structural and fatigue characteristics of a torsion bar within a rear trailing-arm suspension
- Performed hand calculations alongside a 3D modeling and simulation conducted on SolidWorks

## **MOTOR VEHICLE DESIGN PROJECTS (POLITECNICO DI TORINO)**

Oct 2023 – Mar 2024

- Numerical study and analysis of tire behavior, longitudinal dynamics, brake split analysis, suspension kinematics of a car (MATLAB was used for the 4 projects)

## **SIMULATION OF POTENTIAL AND REAL FLOW (NDU)**

Oct 2022 – Nov 2022

- Simulation of the potential and real flow around a person riding a flite board using MATLAB and comparing it to a CFD simulation using SolidWorks

## **ACTIVITIES**

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### **ASHRAE – NDU Student Chapter**

Zouk Mosbeh, Lebanon

Content Creator and Social Media Manager in the Committee

2023 – Present

- Took part in the organization of several events, webinars, seminars and field trips for students

### **ASME – NDU Student Chapter**

Zouk Mosbeh, Lebanon

Subcommittee Member

2022 – 2023

- Assisted the committee in the organization of some events
- Contributed to the organization of the ASME EFX event hosted at NDU

### **PIANO – CASA BEETHOVEN**

Ballounh, Lebanon

2010 – Present

- Participated in many shows and spectacles organized by the music school

### **CHORUS – SAINT ELIE CHURCH**

Ballounh, Lebanon

2017 – 2021

- Participated in the masses on Sundays.

### **BALLET – CASA BEETHOVEN**

Ballounh, Lebanon

2006 – 2019

- Took part in many shows and spectacles held by the dance school

## **VOLUNTEERING**

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### **HIMAYA (Lebanese NGO Dedicated to Child Protection and Support)**

Ajaltoun, Lebanon

Animator in a Safe Park Opened by Himaya

2019 – Present

- Arranged weekly activities and games for children and each activity has a goal of awareness (for example activities about the forms of bullying)
- Organized and participated in many events for children where we also raise awareness to educate adults and protect children at risk from four types of abuse: physical, psychological, sexual and neglect
- Attended many training courses and formations provided by Himaya's team about how to act with abused children

## **ADDITIONAL**

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**Technical Skills:** ANSYS Fluent, SolidWorks, Inventor, Revit, AutoCAD, MATLAB & Simulink (beginner in Simulink), Python, C++ (Visual Studio), Microsoft Office (Word, Excel, PowerPoint...)

**Languages:** Fluent in English, French, Arabic; Beginner in Italian

**Certifications & Training:** Certificate of Participation in the ASME Efx event hosted at NDU in 2022