

Batoul Nouredine

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EDUCATION

American University of Beirut (AUB), Beirut, Lebanon August 2017-June 2021

- Bachelor of Engineering in Mechanical Engineering, Minor in Economics (3.32/4)
- Mastercard Foundation Scholar – Full ride scholarship

Al Mabarrat Schools, Nabatiyeh, Lebanon July 2017

- Lebanese Baccalaureate in General Science with High Distinction (18.45/20)
- Ranked 4th in Nabatiyeh Governorate and 15th in Lebanon
- Manara Gifted Students Program

EXPERIENCE

Electricité Du Liban October 2021-Present

Mechanical Engineering Intern South, Lebanon

- Learn about the different powerplant units and components and their theory of operation, and how produced electricity is connected to the main grid
- Assist in the maintenance of a gas turbines in the powerplant (the main unit for energy production)
- Get trained on the operation and automatic control of the power generation plant

American University of Beirut May 2021-Present

Research Assistant Beirut, Lebanon

- Work on the research question “Thermal Comfort in the East Mediterranean Region”
- Install and monitor sensors that measure pollution particles in Beirut
- Retrieve the measured data from the sensors to be analyzed on MATLAB or simulated on GRAL software

Zari3Tech Startup January 2020-Present

Founder and CEO Beirut, Lebanon

- Develop Zari3Tech startup that aims to produce local compost from organic wastes and encourage home farming
- Lead and direct regular meetings with the cofounders, measure the progress, and plan the upcoming tasks
- Contact organizations in the composting field, build partnerships, and persuade potential beneficiaries for hosting

Arts et Métiers ParisTech June 2020-September 2020

Research Intern Paris, France (Remote)

- Explored the tribological behavior of machining bio-composites under lubricated contacts
- Investigated their hydrophilic/hydrophobic and the oleophilic/oleophobic nature
- Performed and delivered a literature review summarizing, comparing, and analyzing the findings

Rafiq Greenhub Startup May 2019-March 2020

Cofounder, Marketing and Sales Manager Uganda – Kenya – Lebanon

- Prototype and launched Rafiq startup which aims to produce biodegradable bags from trees' bark
- Evaluate the market needs and inclination, marketed, and sold 500 bags
- Established a significant partnership with Youthmakers Hub, a youth organization in Greece

PROJECTS

Sustainable Pollution Measurements in Beirut – Final Year Project October 2020 – April 2021

Biomass Energy and Food Security – Term paper: review and provisions April 2021

Hybrid Powerplants – Literature review, analysis, and recommendations March 2021

Lebanon and the Paris Agreement – Status analysis and strategies proposition February 2021

Aerodynamic Force Analysis – On a NACA 0006 airfoil using source-panel method December 2020

Solar Water Heater System – Design Optimization November 2020

Automatic Ship Steering – Controllers' design using Simulink and MATLAB April 2020

Race Car Miniature Manufacturing – manufacturing of 30+ parts from raw material November 2019

SKILLS

Languages: Arabic (Native), English (Fluent), and French (Basic)

Computer skills: Microsoft Office, Google Drive, Trello, AutoCAD, Creo, SolidWorks,

Programming skills: MATLAB, Simulink, LabVIEW

Soft skills: Problem-solving skills, analytical skills, creative and critical thinking, oral and written communication, leadership, project management

Interests: Mechanical engineering, earth science, energy, consulting, strategy management, entrepreneurship, agriculture, economic and social development

AWARDS AND ACHIEVEMENTS

The Resolution Project – Fellowship and Grant

January 2021

A provisional Fellowship granted based on compelling personal leadership characteristics, promising project proposal, and outstanding commitment to making a positive change in the world

UNDP Youth Leadership Program – Participant

May 2020

A training program aiming to support youth to design and implement innovative, impactful, and sustainable development solutions. My project Zari3Tech ranked the 8th place in the semi-finals

Humanitarian Engineering School – First Prize

January 2020

A one-month winter school program on Designing Solutions for Health Challenges in Crises, using engineering designs to address humanitarian challenges through multidisciplinary reflections. Our project was awarded the first place for its innovation, applicability, and response to the need

LAU Case Competition – Second Prize

April 2019

A competition for university students in which we solve real-life business cases presented by the partner companies. Our proposed strategy won the second prize in the creative track

Mastercard Foundation – Full Ride Scholarship

July 2017

A full ride scholarship awarded to distinguished individuals based on academic promise, financial need, leadership potential, and desire to give back to the community

EXTRACURRICULAR ACTIVITIES

Unity Club

September 2019- August 2020

President

AUB, Beirut, Lebanon

- Co-founded and launched the club, set up the bylaws, and designed the club structure
- Led 60+ members and planned and conducted workshops, discussions, and talks
- Coached and mentored the current and potential future cabinet members for fulfilling their current and future roles

3D Club: Discuss, Debate, Discourse

September 2019-August 2020

Secretary

AUB, Beirut, Lebanon

- Archived and documented the club's work and meetings
- Organized and implemented physical and online workshops, debates, and projects
- Promoted the events and encouraged the members and the university community to take part of

Young Mediterranean Voices and British Council

July 2019-December 2019

Debater

Beirut, Lebanon

- Received debate training as making arguments and refutations according to the British parliament format
- Represented my university and debated on pressing political, social, and economical topics
- Won the second place in the National Debate Forum NDF

Orphan Welfare Society

January-February 2018

Workshop Trainer

Saida, South Lebanon

- Delivered a computer literacy workshop to 30 vocational school students for a period of 2 months
- Prepared the deliverables, assessed the students' level and performance weekly, and altered the material accordingly

LAU Model United Nations

November 2016-March 2017

School Advisor

Nabatieh, South Lebanon

- Mentored 16 high school students in their experience as Model United Nations trainees and delegates
- Delivered in-school training sessions and motivated the students/delegates for conference preparations