

REINE HAMMAD

MECHANICAL ENGINEER

Mount Lebanon-Lebanon

rah103@mail.aub.edu ,+961 71268113

Member of the Order of Engineers and Architects-Beirut. I recently graduated as a Masters student in engineering-MEng focused in Thermal and fluid sciences from the American University of Beirut-AUB. I find myself eager to prove my knowledge and start a career at a reputable company.

Technical Proficiencies: C++, Microsoft Office, MATLAB, AutoCAD 3D, Autodesk Inventor, PIVLAB2000, EQuest, Microsoft PowerBi.

EXPERIENCE

JULY 2014

INTERNSHIP, MIDDLE EAST AIRLINES-MASCO

- Intensive aerodynamic lectures and a detailed presentation of the MEA Company and Airbus airplanes systems and functionality.
- Checking on airplanes in the maintenance Hangars, practicing to write detailed step by step action plans to repair each case study after reading the Airbus airplane manuals.
- Visiting and working in several workshops (avionics and standards, brakes and wheels, machine shop, metal shop, composite shop, decal and paint shop, NDT (Non-destructive testing), quality systems, fabric shop) and spending few days at the Continuous Airworthiness Management Organization (CAMO).

JANUARY 2019-MAY 2019

RESEARCH ASSISTANT, AMERICAN UNIVERSITY OF BEIRUT

Research assistant at the Aerosols Lab. My role was to:

- Test the Aerosol machinery involved in the setup and report their status
- Draw the experimental setup sketch based on system requirements Decide, upon generators specifications, on connecting pipes material and dimensions
- Decide on mechanical devices needed (e.g. of flow meters, valves, variable resistive loads, etc.) and prepare purchase orders upon Lab manager approval
- Contact the generators company for maintenance service
- Prepare manufacturing CAD drawings, send them to university shops for realization and following up to ensure everything is being done according to my design
- Setting regular follow up meetings to keep everyone in the loop and share opinions.

2019-2020

RESEARCH ASSISTANT, AMERICAN UNIVERSITY OF BEIRUT

Research assistant at the Experimental Fluid Mechanics Lab. My role was to:

- Help conduct the experiment
- Process the results using Matlab based PIVLAB software,
- Analyze the results
- Provide regular reports

2019-2022

GRADUATE TEACHING ASSISTANT, AMERICAN UNIVERSITY OF BEIRUT

- Assists students in class
- Grade home works and quizzes
- Perform oral online quizzes with students

EDUCATION

2022

MASTER OF ENGINEERING-MECHANICAL ENGINEERING, AMERICAN UNIVERSITY OF BEIRUT

GPA: 92.72/100.

I chose to concentrate my degree in the thermal and fluid sciences area.

In addition to mandatory course work in each semester, I attended several workshops ("Research as design thinking", "Career path and development", "STEM thesis: Panel of AUB professors") and seminars.

My graduate courses included Solar energy, Energy laws and case studies (oil and gas legislations), Experimental fluid mechanics, Aerosol dynamics, Efficient buildings with good indoor air quality, Microflows fundamentals and applications, Heat pumps, Modeling energy systems.

2015

BACHELORS DEGREE IN ENGINEERING-MECHANICAL ENGINEERING, LEBANESE UNIVERSITY

Major GPA: 81.6/100 (French system-equivalent to an A+ in literal USA grade system).

I chose the construction path as a specialization. My undergraduate Major courses are, and not limited to Robotics, Machine Calculus, Thermal Engines, Composite Materials, Sensors, Microprocessors and Finite Elements.

ONLINE COURSES

Completed Path: Microsoft Certified: Data Analyst Associate, 2021

LinkedIn Learning- Learning Data Analytics, 2020

SKILLS

- **Quick Learning:** Working on several topics for a paper or project purposes, requires quick understanding of several engineering and science principles.
- **Advanced English and French Languages:** (TOEFL iBT score: 102/120)
- a mom of two proved that I can successively handle multiple tasks.

- **Team Work:** Gained this skill throughout working with my colleagues on projects and papers co-authorships.
- **Multitasking:** Dealing with several courses and projects at university and simultaneously being