



Salima Ghzayel

Mechanical Engineer | Beirut -Lebanon

✉ salima_ghzayel@hotmail.com

☎ +961 71 341 386

EDUCATION

Masters in Computational Fluid Dynamics _____ **2018-2019**

LEBANESE UNIVERSITY - Faculty of Engineering

Relevant Courses: CFD, Finite Elements, Coupling Problems, Optimization, Inverse Methods...

Bachelor in Mechanical Engineering-Energetics _____ **2014 - 2019**

LEBANESE UNIVERSITY - Faculty of Engineering III

Relevant Courses: Heat & Mass Transfer, Thermodynamics, Modeling, Production of Energy, Hydrodynamics, Gas Dynamics, Combustion, Computer Science, Modern Physics...

PROJECTS

Simulation of the fogging of glazed surfaces of Renault-Zoe cabin _____ **May-September 2019**

Current Thesis (numerical window fogging model shall be developed and integrated into cabin model in an attempt to optimize HVAC design and energy consumption, thus to extend battery life of the EV)

Fire dynamic simulation of a boat _____ **January 2019**

Importing a boat geometry, then meshing and processing in Pyrosim.

Open channel waves simulation _____ **December 2018**

Processing and preprocessing using ANSYS – Research in *turbulence* modeling.

Design and manufacturing of a centrifugal pump _____ **January-February 2018**

Design using SolidWorks and manufactory using CNC, laser cutting and turning.

EXPERIENCE

Achour Holding | Lancaster EdenBay Hotel-Lebanon _____ **July-August 2018**

Designing the heating, ventilation, air conditioning and smoke ventilation systems

Rasamny Younis Motor Co. | Rymco-Lebanon _____ **August 2017**

Trained by engineers and technicians in Auto Repair Services

Industrial Research Institute | IRI-Lebanon _____ **July 2017**

Certified welding methods and inspection (MIG, arc...) & Common Non-Destructive Testing methods

Skills and Interests

Skills: C Programming -ANSYS-COMSOL- Pyrosim- Gambit-Solidworks-Microsoft Office-MATLAB...

Languages: English (Fluent) - French (Intermediate Level) – German(Beginner)- Arabic (Native)

Interests: Cosmology - Quantum Physics – History of Science – Green Energy - Philosophy – Classical Literature –LGBTQ Rights – Camping

ASME Membership since 2017