Hadi Najdi

Beirut, Lebanon • +96178845825 • hadi.najdi98@hotmail.com

• https://www.linkedin.com/in/hadi-najdi

EDUCATION

- **Lebanese University(LU)**, M2 Degree Mechanical Engineering-Computational Mechanics   (Sep 2020 – Sep 2021)

  - Studied CFD (Flow governing equations, solution procedures, Velocity-Pressure Coupling, Turbulence Modelling, The Finite Volume Method). Meshing using Gambit, Ansys-Fluent, Tecplot software...
  - Earned courses about Optimization in mechanics using different optimization methods, Extended finite elements, Thermal Modelisation, Crash-worthiness.

    GPA:77.35/100

- **Lebanese University,** Hadath, Lebanon – Diploma Degree in Mechanical Engineering   (Sep 2016 – July 2021)

  - Achieved a firm foundation of the basic principles of mechanical engineering and the courses in Engineering Mechanics, Thermodynamics, Fluid mechanics, Material science & composite Material, Manufacturing processes.
  - Acquired knowledge of many engineering topics and courses like Machine design, heat transfer, HVAC, CFD courses for internal combustion engines and motors, and exergy analysis.

    GPA:80/100

- **DeirKifa High School, South, Lebanon,** Lebanese baccalaureate degree   (July 2016)

    GPA:80/100

EXPERIENCE

- **Part-time RA at American University Of Beirut (AUB)**   (Jan 2022-Present)
  - Studying Fracture Behavior of the *TaC*-Graphite Stacked Ceramics.

- **Lebanese University-Faculty of Engineering**, Hadath, Lebanon   (Mar 2021 – Sep 2021)
  Engineering Degree's and Master 2 Final Year Project
  - Performed a Numerical Simulation of burning of single douglas fir tree.
  - Studied fire dynamics in single douglas fir tree.
  - Used FIRESTAR3D software for numerical simulations .
  - This 3D physical model developed in close collaboration between the Lebanese University, Aix-Marseille University, and Toulon University.
  - Compared Numerical with experimental data from France and USA

- **AME Engineering**   (October 2021-November 2021)
  Intern
  - Worked on the design of the Mechanical Systems as: Plumbing and HVAC systems.

- **Free profession**   (Aug 2016 – Sep 2018)
  Welder helper
  - Assisted welders in setting up equipment, preparing tools. Inspects,repairs, installs, modifies, and performs welds, and maintains welding equipment

- **Freelancing**   (July 2017)
  - Observed and evaluated students' work to determine progress and make suggestions for improvement.
  - Taught Chemistry, math and physics to 20+ students of 10-12th grades a year.

SKILLS AND ADDITIONAL INFORMATION

Languages: English (excellent), French (Fair), and Arabic(native).
Computer Programs: SolidWorks, Ansys-CFD, Gambit, Tecplot, Autocad. Design-Builder,Solkane, Pyrosim, HAP.
Master 2 courses: Finite element, Finite volume, Optimization.
Programming Languages: C Language and MATLAB.
Microsoft Office: Word, Excel and PowerPoint, LYX.
Other Interests: Teaching, Reading, Hiking, Playing Football and Basketball.