Ahmad Hijazi

Mechanical Engineer

Ahmad.hijazi05@lau.edu ✉

+96178956977 📱

Byblos, Lebanon 📍

EDUCATION

Master of Science in Mechanical Engineering
Lebanese American University

09/2021 - Present   *Byblos, Lebanon*

Bachelor of engineering in Mechanical Engineering
Lebanese American University

09/2017 - 06/2021   *Byblos, Lebanon*

Lebanese Baccalaureate In General Science
Sarafand Official High School

09/2014 - 07/2017   *Sarafand, Lebanon*

WORK EXPERIENCE

Graduate Research
Lebanese American University

09/2021 - Present   *Byblos, Lebanon*

Tasks
- Working on improving the Power Coefficient of Vertical Axis Wind Turbines
- Modelling and simulating a Vertical Axis Wind Turbine on Ansys Fluent
- Investigating the effect of modifying the turbine blade on its performance

Internship at Atalian Switch Group Company
worked in the Facility Management Department

07/2020 - 09/2020   *Beirut, Lebanon*

Tasks
- Performed preventive and corrective maintenance
- Used a Computer based Maintenance System(CMMS) to manage daily work processes
- Provided technical support during site visits with technicians

ORGANIZATIONS

American Society of Mechanical Engineers Club (ASME) (09/2017 - Present)
Member

LAU Robotics Club (09/2017 - Present)
Member

LAU Artificial Intelligence Club (09/2019 - Present)
Member

SKILLS

Ansys · MATLAB · SolidWorks · LabVIEW · Java · Python · AutoCAD · HTML · Spaceclaim · Microsoft office · C++

PROJECTS

Rowing Boat (04/2019)
- Designed 6 bar linkages to row a Boat

Rubik's Cube Solver (04/2019)
- Programmed on LabVIEW and Controlled via a Myrio Controller

Solar Panel (11/2019)
- Used a PID controller programmed on labVIEW to control a solar panel

Finite elements method projects (03/2020)
- Developed MATLAB codes to solve one dimensional heat conduction equation and to solve trusses structures using finite elements method

Computational Fluid Dynamics projects (11/2020)
- Developed MATLAB codes to solve numerically the advection, diffusion, advection-diffusion, burgers, and Navier-Stokes equations
- Analyzed the stability of using different spatial discretization methods with different time integration methods

Solar Desalination Systems (11/2020 - 05/2021)
- Designed and simulated conventional and inverted absorber solar stills and solar still with phase change material (PCM) in Final Year Project

ACHIEVEMENTS AND CERTIFICATES

Graduate Program Scholarship (09/2021 - Present)
A full Scholarship for graduate studies at the Lebanese American University

University Scholarship Program (09/2017 - 06/2021)
A full Scholarship by USAID at the Lebanese American University

SolidWorks Certification (CSWA) (10/2018)
Dassault Systemes (3DEXPERIENCE Certification Center)

LANGUAGES

English
Full Professional Proficiency

Arabic
Native or Bilingual Proficiency