**Mostafa**

AUS Dorm

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**Career Objective:**

To work for a progressive organization in a highly motivating and challenging environment that provides the best opportunities to grow and utilize my potential to the fullest to achieve the organization's goal while achieving my personal goals.

**Education:**

**American University of Sharjah** Sharjah, UAE 2016-Current

MSc in Mechanical Engineering

**Lebanese American University** Byblos, Lebanon. 2012-2016

BE in Mechanical Engineering, Cumulative GPA: 3.6/4

**Nazih EL Bizri High School** Saida, Lebanon 2009-2012

Lebanese Baccalaureate in Life Science

**Intermediate Public School for Boys and Girls** Saida, Lebanon 2004-2009

Lebanese Brevet

**Relevant Courses:**

Refrigeration and Air Conditioning, Passive Building Design, Lean Manufacturing, Internal Combustion Engine, Professional Communication, Energy Conversion, Project Management, Power Trains, Introduction to Plant Design, Thermal System Design, Mechanical Vibration, Control Systems, Thermodynamics, Professional Ethics, Kinematics and Dynamics of Linkages, Instrumentation and Measurements, Heat Transfer, Strength of Materials, Manufacturing Processes, Computer Aided Design, Fluid Mechanics, Material properties and Processes, Computer Application in industrial and Mechanical Engineering, Dynamics.

**Awards and Scholarships:**

* Abdullah Al Ghurair Foundation for Education Scholarship 2016-Current
* Full scholarship from the European Union 2012-2016
* Dean’s Honor List 2012-2016

**Academic Projects:**

**SAR Firefighting Robot:** The aim of this project was to design and develop a fully autonomous robot that will be used in firefighting to climb the wall of a scaled down building with simulated fire and to perform search and rescue tasks (Fall 2015-Spring 2016).

**HVAC Project**: worked as a group of 4 to calculate heating and cooling loads for an apartment for two types of constructions, and to use HVAC design software for calculating heating and cooling load (Spring 2016).

**Lean manufacturing Project**: worked as a group of 8 to reduce the waste in manufacturing environment by applying the lean manufacturing tools learned in class (Fall 2015).

**Passive Building Design**: worked as a group of 3 to design a building on **Design Builder Software** and to monitor indoor temperature and energy consumption to meet the requirements of a passive house by applying the passive techniques learned in class (Fall 2015).

**Project Management**: worked as a group of 4 to develop a plan and a schedule for the construction of Riyad Nassar Library in LAU Beirut campus. We looked through the specs and maps provide to us, applied the concepts and theories studied in class, and used primavera to compute the total duration and find the critical path, and precedence network (Spring 2015).

**Power train Project**: worked as a group of 3 to calculate the fuel consumption of a car and the distance travelled given its cycle using **Simulink (**Spring 2015).

**Instrumentation project**: worked as a group of 4 to design an in vitro experiment to simulate the blood flow in the heart and to find a relation between artery blockage percent and the frequency of the sound produced from turbulence of blood flow due to the buildup of plaque (Spring 2015).

**Pump design**: worked as a group of 3 to design a centrifugal pump using ANSYS Software, optimize its efficiency using the optimizer in Ansys, and to determine its characteristic curve (Fall 2014).

**Mechanical Design project**: worked as group to perform a case study on a mechanical device and to do all the calculations needed for the stress analysis (Fall 2014).

**Analysis of Slide Crank Linkage**: worked on writing a code using MATLAB to calculate and plot the displacement, angular velocity, and angular acceleration of each link of the slider crank linkage, and to animate the motion of the linkage (Summer 2014).

**Analysis of array of rectangular fins**: worked as a group of 3 to sketch an array of rectangular fins, study its efficiency and effectiveness, and compare the analytical and numerical values using Workbench ANSYS (Spring 2014).

**CAD modeling**: worked as a group of 3 to design an excavator on Solidwork software, and to do motion studies, stress analysis, and flow analysis using this software (Spring 2014).

**Packaging project**: worked to design an innovative package on AutoCAD for the UNIPAK structural design competition (Spring 2014).

**Working Experience:**

Worked as intern at ACW (Arab Construction Company) for a duration of 2 months. 2016

* Learned to compute friction losses in different fitting and pipes and to do pipe sizing.
* Learned to calculate the pressure and power requirements of the pump.
* Learned to sketch pipes and ducts on AutoCAD software.
* Introduced to methods applied for calculating heating and cooling loads and for duct sizing.

**Skills and Abilities:**

Language skills: Fluent in Arabic and English.

Key skills:

* Excellent in Math and Physics.
* Well versed in Engineering drawings and principles
* Efficiency in working methodically and precisely
* Good problem solving skills.
* Good knowledge of CAD/CAM
* Microsoft Office
* AutoCAD
* Workbench Ansys
* MATLAB
* Java
* LABVIEW
* DSC Solidworks

Personal traits:

* Laborious and energetic
* Serious and logical
* Disciplined and loyal
* Excellent communication abilities
* Ability to grasp the new skills
* Ability to take instructions
* Ability to work individually as well in group environment

**Hobbies:**

* Playing Football
* Listening to music
* Reading

**Extracurricular Activities:**

* Participant in the World Government Summit of 2017