

Vanessa Nassar

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EDUCATION

Lebanese American University, Faculty of Engineering

Sept 2017 – present

B.E. in Industrial Engineering

(Placed on the honors and distinction list for three semesters)

Jesus and Mary School, Rabweh, Lebanon

Oct 2002 – July 2017

Lebanese Baccalaureate: General Sciences (Honors)

RELEVANT SKILLS

Engineering Skills

- Acquired the knowledge of implementing system dynamics notions into complex situations
- Designed and implemented risk assessment and management strategies
- Learned the ergonomic concepts and principles to limit technical complications and musculoskeletal problems
- Studied various supply chain management concepts such as demand forecasting and aggregate planning
- Understood network flow concepts such as shortest/longest path, decision trees, and networks
- Covered topics in facilities planning and logistics, single facility location models minimax and minisum, and multiple facility location
- Achieved quality control skills: modeling process quality, process control, types of control charts, acceptance sampling, and process capability analysis
- Learned production systems concepts that cover inventory analysis, forecasting, machine scheduling, sequencing, cycle time, material control, and manufacturing systems

Technical Skills

- Performed animation, motion study, and simulation stress analysis on parts and assemblies on Solidworks
- Utilized Vensim to visualize real life concepts of system dynamics
- Achieved basic knowledge in Matlab, Lingo, Java, and MiniTab
- Used Arena to observe the simulation principles
- Introductory knowledge to 2D drafting, sketching, and AutoCAD
- Gained advanced knowledge in Microsoft Excel and implementing the use of Solver and VBA to obtain optimum results
- Learned how to use a drill press, shear press and slip roll, lathe, bandsaw, jigsaw, hacksaw, arc welding

Communication Skills

- Coherent in English, French, and Arabic
- Wrote various engineering reports and designed presentations on MS Powerpoint
- Presented projects that tackled engineering principles

CERTIFICATIONS

Data Scientist Toolbox

February 2021

- Offered by John Hopkins University
- Provides basic information about data science

Machine Learning

February 2021

- Offered by Stanford University
- Provides a broad introduction to machine learning, datamining, and statistical pattern recognition using Matlab and Octave programs

Innovation Management

December 2020

- Completed through Erasmus University Rotterdam
- Gained knowledge in the different types of innovations and principles of idea management
- Learned about the relationship between creativity and innovation
- Understood why stage gate models and portfolio management are important
- Examined the effect of teams in innovations

- Maharat min Google** October 2020
- Participated in an online webinar performed by a Google representative
 - Understood in detail the fundamentals of digital marketing
- Solidworks Associate in Mechanical Design** August 2020
- Completed the Solidworks CSWA exam and achieved a grade of 225 out of 240
 - Designed and assembled products on Solidworks
- L'Oreal Brandstorm 2020 Competition** May 2020
- Developed an eco-friendly L'Oreal product which reduces the use of plastics
 - Worked in a team of three to solve the proposed problem
 - Placed among the top 10 out of the 70 teams in Lebanon

PROJECTS

Final Year Project

Designed a logistic system for the humanitarian aid for the victims of the Beirut explosion using learned engineering principles

Supply Chain Management

Described the supply chain management performances and drivers of a Lebanese tile factory and forecasted the demand on Excel of the best-selling products

Engineering Entrepreneurship

Created a startup, which tackles the idea of touchless elevators, and designed its corresponding business plan

Project Management

Worked on rehabilitating and renovating the ground floor of the LAUMC Hospital by developing a work breakdown structure, defining activities with their corresponding precedencies, and scheduling the project on Primavera

Network Flow

Optimized the network distribution of a nuts factory in Lebanon while minimizing the total distance travelled and the total cost using the capacitated vehicle routing model

Quality Control

Applied quality control methods on Henkel in Lebanon by pointing quality characteristics and building control charts on MiniTab

WORK EXPERIENCE

Intern

July 2021 – August 2021

CMA CGM The Hub (Beirut, Lebanon)

- Designed CMA CGM assets on Autodesk Inventor
- Gathered information and research about the assets
- Learned Unity and how it can be used in the project

Manufacturer Supervisor

May 2020 – July 2020

Nasco Steel (Mazraat Yachouh, Lebanon)

- Supervised the process of manufacturing different steel products
- Scheduled the tasks of the workers and machines
- Helped in designing products on AutoCAD to be printed on a CNC machine

OTHER EXPERIENCE

Tutoring

October 2020 – July 2021

- Teaching middle school kids and helping with their homework
- Teaching 9th grade student mathematics and physics

Volunteer at Mother Theresa House in Kolkata, India

August 2016 – September 2016

- Taking care of mentally and physically disabled women
- Training to be a quick thinker and respondent
- Learning to be creative with limited resources