

Majd Alkontar

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Objective

Motivated to learn, grow, and excel in my field of work. Aiming to increase my knowledge and experience in various aspects.

Professional Experience

Internship SMLC PEPSICO

JULY 2021 – AUGUST 2021

SMLC - Choueifat, Lebanon

- Helped in choosing a more efficient water pumping system for the factory.
- Studied the sugar dissolving process and the functioning of the valve matrix used.
- Designed a compressor room with improved ventilation and compressor ducts to improve efficiency.
 - Studied the factory's low-pressure air compressing system
 - Looked for leaks and inefficiencies.

Education

BE | Mechatronics Engineering

SEP 2018 - CURRENT

Lebanese American University – Byblos, Lebanon

Expected graduation date: December 2022

Good Standing with a CGPA of 3.61.

Personal Development

- | | |
|-------------------------------------------------------|-------------------------------------|
| • DeepLearning.AI TensorFlow Developer Specialization | Coursera Specialization June 2021 |
| • Neural Networks and Deep Learning | Coursera JUNE 2021 |
| • Improving Deep Neural Networks | Coursera June 2021 |
| • Convolutional Neural Networks | Coursera June 2021 |

Skills

- **Language** - English: fluent, Arabic: native
- **Computer skills** - MATLAB, Simulink, LabView, SolidWorks, AutoCAD, Microsoft office, PSPICE, Altera Quartus, Primavera
- **Coding** - Java, Python, Robot Operating System (ROS), PLC Ladder Programming, Motorola 68000 assembly, C, C++, JavaScript
- **Knowledge** - Mechatronics Systems, Mechanical Engineering Design, Fuzzy Logic, Machine Learning, Neural Networks
- **Soft skills** - Time management, Leadership, Problem-solving, critical thinking

Certificates

- LAU Distinguished List (Fall 2021, Spring 2021), LAU honor list (Fall 2019, Spring 2019, Fall 2018)
- Certified SOLIDWORKS Associate in Mechanical Design (2020)
- Participated in Berytech ideathon (2019)

Activities

- Currently enrolled in the U.S. MEPI Tomorrow's Leaders Gender Scholar Program
- Currently enrolled in the U.S. MEPI College to Work Pipeline Program (TLP)

Projects

Smart Vacuum Cleaner (2021)

Developed an autonomous vacuum cleaner algorithm for determining the shortest path to clean a room in a fully and partially observable environment. Utilized Minimax, Alpha-beta pruning, and Expectimax algorithms to add adversarial functionality between multiple vacuum cleaners and dust producers.

Cruise Control System (2021)

Designed a fuzzy logic cruise controller, tested it with Simscape multibody on a SOLIDWORKS-designed car, and implemented it on a Rover 5.

Foot Pedal Singer Sewing Machine (2021)

Modeled an antique foot-powered sewing machine in SOLIDWORKS, investigated its kinematics and mobility, and studied its motion in SOLIDWORKS and MATLAB Simulink.

M&M and Coin Sorting Machine Using Computer Vision (2020)

Designed, simulated, and implemented a system that recognizes M&Ms, and coins based on their color and size and delivers them to a conveyor belt to be sorted into the appropriate box.

P570 Patrol Ship (2020)

Using SOLIDWORKS, I designed, drew, and assembled parts for a P570 patrol ship.