Mohammad Dbouk

M.S Mechatronics Engineering

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Education

2014–2018   **Bachelor of Science in Computer and Communications Engineering emphasis in Mechatronics Engineering**, American University of Science and Technology, Beirut, Lebanon.

2018- 2020   **Masters of Science in Mechatronics Engineering,** American University of Science and Technology, Beirut, Lebanon.

Experience and Internship

December 2019   **Consultant Operations Engineer – Dar Al Handasa, Nazih Taleb - at Costa Brava Landfill Project,**
Make sure that all processes and functions are working correctly and efficiently.
Conducting site visits and researching technical processes.
Meeting with other consultants to discuss technical and engineering needs.
Providing expert advice on available solution and technical changes.
Preparing daily reports to keep track of the project's progress.

May 2019   **Technical Support at TeltacWorldwide**, VoIP Communication Company.
Pre-sales technical analyst (route quality and tier level) and after sales support with main tasks: monitoring the incoming and outgoing traffic from customers and vendors, dealing with customer complaints and working out with them to solve their technical issues via ticketing systems or other means of communication (skype, direct call….)

June 2018   **Senior Design Project**, AUST, Ranked 3rd among CCE.
MedBox, which is an efficient and inexpensive solution available to help users adhere to set medicine intake; The MedBox is Arduino based, it is connected to a system that contains servo motors, an ultrasonic sensor, a LCD, and a mobile application that supports notifications and a virtual pushbutton. MedBox offers the facility of reminding patients of their pill-intake timing through dispensing the right pills at the right time (these setting can be easily adjusted by the patient's guardian).

June-2017   **Internship (1 month)**, Khonaysser Motor Company, Beirut, Lebanon.

Projects Done During University

Circuit Analysis I: Triple Output DC Power Supply which takes 1 AC input and convert it to 3 separated DC output .

Circuit Analysis II: Obstacle Avoider System implemented on a car, using infrared sensors.

Engineering Workshop: Magnetic Crane, with a mechanical system composed of three motors with gears, and a transformer as magnet that lifts up to 10kgs.

Engineering Tools: Face Detection System using MatLab, with a camera connected to a motor that rotates following the face movement.

Digital Systems: Automated Home Alarm, using ic's basic operations: AND, OR and Not gates.

Electronics: Frequency Modulator for electric piano that works on different octaves.

Computer Organization and Microprocessors: 4 wheel robot that is controlled by voice instructions using Arduino.

Virtual Instrumentation Systems: Sudoku solver that works using stored information and operations on Labview.

Control Systems: Dc Motor to Servo Motor Converter using Arduino. Rotates to specific angle given by the user.

Kinematics: 4 Link walking mechanism based on Grashof's law using links and DC motors

Smart City: Concepts and Solutions: Automated Medicine Box.

Certificates and Awards

2017-2018   **Certificate of participation**, Engineering Senior Expo, Ranked 3rd among CCE.

Scientific and Engineering Activities

2018   Participated in the Engineering Senior Design Expo

2014-2018   Participated in the Engineering Expo in every semester

Competences

Programming   Arduino C#, Matlab, C++

Tools   MatLab, Labview, Microsoft Office.

Operating Systems   Windows, MacOS.

Languages   English (Bilingual proficiency), Arabic (Fluent).