# Abbas Fattah

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#### **EDUCATION**

#### Lebanese American University

Beirut, Lebanon

BE Mechanical Engineering GPA: 3.74/4.00 (With Distinction)

Sep 2017 - May 2022

Minor in Computer Science

WORK EXPERIENCE

EMDC Group

Jal El Dib, Lebanon

Feb 2022 - Apr 2022

• Designed and edited engineering drawings related to HVAC, plumbing, and fire protection systems for the upcoming Riyadh Metro

#### Association of Energy Engineers

(Remote)

Mechanical Engineering Intern

Part-time Mechanical Engineer

Jul 2021 - Aug 2021

- Proposed different lighting designs for the LAU tennis court that would increase energy efficiency by at least 40% while staying under the assigned budget
- Designed a smart energy management system for residential buildings to analyze real-time data for electricity, gas and water

CIJE

Jabriya, Kuwait (Remote)

Project Construction Intern

Jun 2021 - July 2021

- Gained intensive knowledge of different construction tasks, ranging from procurement and scheduling to piping and structural design and commissioning
- Utilized 3D design (Navisworks) and project management (Primavera) software to monitor the project's process

LAU Residence Halls

Byblos, Jbeil

Resident Assistant

Sep 2019 - Dec 2021

- Counseled peers on career, academic and personal concerns, especially during the time of challenging events happening in the country
- Maintained continuous contact with the residence halls administration and provided daily updates regarding the dorm's status

#### FINAL YEAR PROJECT

### Automatic Intelligent Cutter for CNC Machine Compensation (SOLIDWORKS, ANN, CNN, Python, MATLAB, AutoCAD)

Designed a smart-cutting tool box that moves the cutting tool using piezoelectric actuators to compensate for flank tool wear. The flank tool wear was calculated using empirical formulas, artificial neural networks and convolutional neural networks based on force signals received by strain gauge sensors.

## Extracurricular

KLNA Lebanon

Beirut, Lebanon

Communications Team Member

Apr 2021 – Present

- Prepared content for the organization's social media platforms to attract local and international donations from tens of countries around the world
- Maintained a line of communication with international donors to ensure the safe delivery of hundreds of over the counter and prescription medication

MMKN Foundation

Beirut, Lebanon

Physics Tutor

Mar 2021 - May 2021

• Guaranteed the success of 90% of two eighth grade classes by teaching them physics classes to help them prepare for final year exams

#### Lebanese Red Cross Youth Department

Volunteer

Beirut, Lebanon Jul 2016 – Aug 2017

• Organized and participated in community outreach and campaign activities related to environmental and drug awareness

SKILLS

Design Softwares: AutoCAD, SOLIDWORKS

JAVA, Python, MATLAB, SQL Programming Languages:

Simulink, myRIO, Computational Fluid Dynamics, Finite Element Analysis, LabVIEW Other:

CERTIFICATIONS

# Introduction to TensorFlow for AI, Machine Learning, and Deep Learning

Coursera

Convolutional Neural Networks in TensorFlow

Coursera