

# PAUL RAFFOUL

## MECHANICAL AND MACHINE LEARNING ENGINEER

### PERSONAL INFO

Date of Birth: 17-08-1993

Nationality : Lebanese

Beirut, Lebanon

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### AREAS OF EXPERTISE

- Machine Learning, Data Analysis, Deep Learning, Predictive Modeling, Supervised Learning, Unsupervised Learning
- Biomechanical Analysis and Modeling
- Project Management, Qualitative Analysis
- Maintenance Management, CMMS, HSEQ, GAP Analysis
- MEP, HVAC, Procurement

### SKILLSET

- Python, SQL
- Scikit-learn, Keras, Tensorflow
- AutoCAD, MATLAB, SolidWorks, Catia, Opensim
- Microsoft Office Package
- Communication, Teamwork, Problem Solving, Attention to Details

### LANGUAGES

- Arabic -Native
- English-Fluent
- French-Fluent

### HOBBIES

- Tennis
- Reading
- Cinema

### SUMMARY

Result-driven and ambitious mechanical engineer and project manager with diverse experience in the energy sector, MEP and HVAC design, machine learning and robotics. Started my engineering consulting practice upon graduation and succeeded in my last role in implementing the robust management and HSE standards at TotalEnergies.

### WORK EXPERIENCE

#### INTERIM HSE ENGINEER

TOTALENERGIES -M&S Terminal-Dora Lebanon | Nov 2019 – Sep 2020

- Defined the GAP analysis of the new MAESTRO (Management and Expectations Standards Towards Robust Operations) standards at the terminal
- Succeeded in implementing the JET A1 quality control standards in tankers reception, truck loading, tanks drainage operations
- Succeeded in updating the calculations and rules of the emergency plan of the depot to comply with the new standards
- Improved the asset integrity of the depot, by updating the operating methods for maintenance and including them in the CMMS software
- Implemented new operational and HSEQ rules and procedures at the terminal
- Prepared technical specification booklets for bids for terminal ATEX survey project
- Generated HSE action plan from planned site inspections and job observations
- Delivered HSEQ training to the terminal technicians

#### FREELANCE MEP AND HVAC DESIGN ENGINEER AND CONSULTANT

Lebanon | May 2017 – Sep 2019

- Successfully designed and generated bill of quantities for mechanical, plumbing, heating, solar power, ventilation, and air conditioning systems for residential and commercial projects according to local laws and regulations
- Built and maintained relationships with clients and partners

#### FINAL YEAR STUDENT PROJECT INTERN-HYDROID PROJECT

LISV-Laboratory of Systems Engineering of Versailles-France | Mar 2016 – Sep 2016

- Optimized the torso design of a hydraulically actuated humanoid robot
- Worked on Hydraulically and electrically actuated robots

#### STUDENT INTERN-MECHANICAL MAINTENANCE

Cimenterie Nationale-Lebanon | Jul 2015

- Planned detailed weekly maintenance schedule for a team of 20 technicians
- Participated in vibration measurement for rotary equipment and heavy maintenance

### EDUCATION HISTORY

#### M2 IN PROJECT MANAGEMENT AND ENTREPRENEURSHIP

Lebanon | 2019-2022

CNAM-Economy and management faculty

#### MASTERS IN MECHANICAL ENGINEERING-ENERGY AND CONSTRUCTION

Lebanon | 2011-2016

Lebanese University-Faculty of Engineering