Address: 5th Floor Masoud Building, Mina

Tripoli, Lebanon

# YOUMN AL RAWI

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## EDUCATION

2015-2020 **Beirut Arab University** Dibbieh, Lebanon
*PhD in Structural Engineering*

- PhD thesis in structural Engineering
Entitled "Effect of Impact loading on Behavior of Post-tensioned Concrete Slabs" published in Elsevier Journal (Journal of Building Engineering Issue 33 January 2020)

2008- 2010 **American University of Beirut** Beirut, Lebanon
*Masters in Engineering Management*

- Graduated with an average GPA 3.87/4.
Major in Project Management Subtitle Construction Management especially of Large Scale Projects (Mega Projects)

2001 - 2006 **Lebanese University – Branch I** Tripoli, Lebanon
*Diploma in Civil Engineering*

- Graduated with an Average 92%(ranking the 1st)
Final Year Project was analysis of 72 story Yaccob tower at Dubai due to seismic and wind load statically dynamically.

1985- 2001 **Tripoli Evangelical School (TES)** Tripli, Lebanon
*Bac. II in Math*

- Graduated with Honor List

## WORKING EXPERIENCE

November 2013/Spring 2025 **Freelance Structural Design and Project Planner**

*Structural Engineer and Project Planner*

- Preparing Schedule of works for more than one project
- Updating Schedule of work and preparing monthly reports
- Preparing Claims and Variation Orders
- Designing residential and office buildings
- Follow up the work at the site (Site Engineer)
- Some Buildings executed are the following:

1-Mejdlia Building (Lot 43) : Two Block (A and B) Residential Building (Ground floor and 5 typical floors)

2-Lot 3633: Residential Building (Ground Floor and 3 Typical Floors)

3- Lot 7578: Residential Building (Additional Ground Floor, Ground Floor and 4 typical floors)

4- Lot 2375: Four Blocks (A, B, C and D) Residential Building Additional Ground Floor, Ground Floor and 4 typical floors)

5- Lebanese University Project for Faculty of Public Health (4 blocks of 3 basements and 5 stories each) and Parking Area (7 blocks of two basements and ground floor)

Fall 2025-2026/Now **Beirut Arab University Tripoli, Lebanon**

*Full Time Assistant Professor*

- Main instructor for the following courses Reinforced Concrete I (CVLE323), Reinforced Concrete II (CVLE324), Reinforced Concrete III (CVLE523), Spoil Mechanics (CVLE333), Foundation Design (CVLE432), Construction Project Management (CVLE466), Earthquake Design (CVLE517) and Final Year Projects I and II (CVLE501 and CVLE502).
- Assisting students with their final projects especially those whose projects are towers analyzed using ETABS.
- In addition to the post graduate courses Dynamic and Seismic Analysis of Structures (CVLE718), Numerical Modeling of Concrete Structures (CVLE717), and Computer Analysis of Structures (CVLE628).

September 2012/Spring 2025 **Beirut Arab University Tripoli, Lebanon**

*Part Time Instructor*

- Main instructor for the following courses Engineering Geology (CVLE231), Engineering Economy (INME221), Structural Modeling using Robot Autodesk (CVLE371), Concrete and Steel Structure (CVEE232), Reinforced Concrete I (CVLE323) and Engineering Ethics

(ENGR001).

- Assisting students with their final projects especially those whose projects are towers analyzed using ETABS.

January 2008/Now **Lebanese University Tripoli, Lebanon**

*Part Time Professor and Lab Assistant*

- Main instructor for the following courses (Tunnel Construction, Engineering Economy, Prefabrication, Industrial Drawings, Robot Structural Analysis, Project Management, Risk Management)
- Assisting students with their final projects especially those whose projects are towers analyzed using ETABS.
- Assisting in Soil Mechanics Laboratory sessions for 3rd year.
- Main Instructor for ROBOT for 5th year in civil and mechanical department (Reinforced concrete and steel design).

March 2012/September 2017 **Engineering Order Tripoli , Lebanon**

*Trainer*

- Teaching ROBOT, ETABS and Safe sessions.

March 2014/June 2016 **Laser Center , Lebanon**

*Trainer*

- Teaching ROBOT and ETABS sessions.

November 2013/November 2017 **Soboh Subcontractor, Tripoli, Lebanon**

*Freelance Planner*

Building the Primavera Plan and updating monthly with the follow up with the consultant:

- Tripoli Wholesale Vegetable and Fruit Market
- Port of Tripoli Building

November 2009/November 2013 **Fadi Beydoun Office Tripoli, Lebanon**

*Structural Engineer*

- Designing residential and office buildings
- Follow up the work at the site (Site Engineer)
- Planning for the projects using Primavera
- Buildings executed are the following:
  1- Dream Residence (Lot 1352) : Residential building (2basements and 10 floors)
  2- Sea View (Lot 638) : Residential building (1 basement and 5 floors)
  3- Saray (Lot 3106) : Office building (5 basements and 13 floors)
  4- Mazloun Hospital Extension
  5- Royal Building (Lot 3980): Residential Building (1basment and 4 floors)
  6- Garden Building (Lot 3930): Residential Building (1basement and 5

floors)

7- Villa Deddeh (Lot 2350): 2 blocks (Main Villa two floors and Gurad Block two floors)
8- Arz School (Lot 3475) (at Minieh) : 22000m2 School (1basement and 4 floors)
9- Mimarar Resort

May 2008/September 2009 **International Consulting Engineer(ICE) (Recently named Temsah Group)**

**Beirut, , Lebanon**

*Structural Engineer*

- Numerical analysis using different soft wares mainly ETABS for seismic study for the different projects in progress.
- Design of different elements (foundations, columns, beams, slabs, stairs, walls….) using S-Concrete, PCA columns, Safe, Prokon ….
- Coordinating between different trades (architectural, mechanical, structural…)
- Some projects are :
    1- Najmat Abu Dhabi : 3 Towers (54 floors, 54floors and 43 floors)
    2- Saraya Tower (Qatar) (36 floor)
    3- Qatar Villas and Club(about 300villa with central club)
    4- Wazzan Tower (Beirut-Lebanon) (35 floors)
    5- Sanaa Mall (45000m2) (1Basement and 5 Floors)

February 2007/April 2008 **MAK (Kharafi Group) Contracting Beirut, , Lebanon**

*Structural Engineer*

- Coordination between different trades in order to execute shop drawings for structural elements for Dubai Central World International Airport (Jabal Ali).
- Member of Contract Administration at the Four Seasons Hotel Project:

  Preparing Variation Orders

  Preparing Interim Payments for Subcontractors

July 2005/January 2007 **AABco Sub-Contractor Tripoli, , Lebanon**

*Structural Engineer*

- Executing shop drawings for columns ,walls ,slabs ,beams ,stairs …
- Working in programming using visual basic on parts of the program used at AABCO for shop drawing.
- Planning and organizing the work.
- Some of the Projects are:
    1- Duabi Pearl
    2- Old Town Tower
    3- Yacoub Tower

4- Jumaira Tower

## PUBLICATIONS

Conferences Participations:

1- Matec Web of Conferences 281 at the Lebanese University in 2019 with a paper entitled "Effect of Successive Impact Loads From a Drop Weight on a Reinforced Concrete Flat Slab".
2- GeoMEast Conference 2019 which was held at Cairo, Egypt and published by Springer Switzerland with a paper entitled "Finite Element Analysis Alteration between the Effect of Seismic and Diverse Wind Speeds on Three Different Resisting Systems".
3- 7th Annual International Conference on Architecture and Civil Engineering (ACE 2019) which was held at Singapore with a paper entitled "Effect of different wind speeds on seismically designed high rise building according to different resisting systems"

4- EURO MED 2 – ISEC (2018) conference which was held at American University of Beirut with a paper entitled "The effect of shear reinforcement ration on prestressed concrete beams subjected to impact load"
5- EURO MED 2 – ISEC (2018) conference which was held at American University of Beirut with a paper entitled "The effect of impact loads on prestressed concrete slabs"

Journal Publications:

1- At Journal of Building Engineering (Issue 31) at January 2020 and the paper title was "Experimental investigation on the effect of impact loading on post tensioned concrete slabs" (This Journal is ranked Q1 journal and published by Elsevier)
2- At American Journal of Engineering and Applied Sciences (Issue 14) at April 2021 and the paper title was "Effects of Architectural Irregularities on the Seismic Behavior of Buildings".

## SPECIAL CERTIFICATES

Internationally certified in Personal Strategic Planning January 2012
Certified in more than one Environmental Conference March 2012
Certificate from ISEC (International Structural Engineering and Construction Concference Euro MED) 2018
Certificate of membership in the Scientific Committee at the Engineering Order 2019
Certificate from Elsevier Journal (2020)

## PHD COURSES

Analysis of Tall Buildings – Numerical Modeling – Dynamic and Seismic Analysis of Structures – Analysis of Composite Structures – Nonlinear Analysis of Structures – Advanced Finite Element Method – Analysis of Space Structures -

## MASTERS COURSES

Management Theory – Probability and Decision Analysis – Introduction to Financial Engineering – Deterministic Optimization Model – Project Deliverance and Contracts- Dispute Resolutions – Engineering Project Management – Advanced Topics in Project Management-Strategic Management – Pre-Project Planning and Feasibility Analysis – Knowledge Management

## FINAL PROJECT

Yacoub Tower was the final project in civil engineering. It is a 72 levels tower being executed in Dubai (330m high). The structural analysis of the multifunctional tower was a combination of many studies, and it was made using more than one software. Executing a durable structure resisting dynamic loads was the target of the project. Numerical analysis was made using ETABS and CBS. Design of structural elements was made using ROBOT.

## COMPUTER LITERACY

MS Office, Internet Literate, AutoCad, ROBOT, Primavera, ETABS, PCA columns, Prokon, AllPiles, S-concrete, Safe, Abaqus

## LANGUAGES

Fluent in spoken and written Arabic and English, and good knowledge of spoken and written French

## HOBBIES

Reading, Music, Traveling

## PERSONAL DATA

Name: Youmn Al Rawi
Date of Birth: 22 March 1983
Nationality: Lebanese
Gender: Female
Social Status: Married

## REFERENCES

REFERENCES AVAILABLE UPON REQUEST