

Curriculum Vitae

Surname: EL-KHOURY MOUSSA
First name: George
Place of birth: Beirut, Rmeil (LEBANON)
Date of birth: 3 march 1981
Family status: Bachelor
Address: Dekwaneh – Lebanon
Phone number: +961-76-314731 (after 4:30p.m.)
Electronic mail: georgeskm@hotmail.com



Objective:

Seeking a managerial or design position where I can apply my 14 years experience in formwork and steel structure projects management, design, calculation, shop drawings supervision and optimization of costs in an international market as well as additional skills gained during my Master in mechanics and MBA studies.

Educational Training:

-2019 :

Project Management Professionnel PMP (Certification in the sixth edition).
Project Management Institute PMI – Pennsylvania (United States of America).

-2016:

Master in Business Administration.
AUL University.
Graduated with a GPA 4 on a 4.0 scale.

-2004-2005:

Master in Mechanical Engineering: Mechatronics, Materials and Optimization.
Lebanese University in collaboration with Versailles-Saint-Quentin in France.

-2004:

Diploma in Mechanical Engineering.
Lebanese University – Faculty of Engineering 2 at Roumieh.

Languages:

- Arabic: Mother tongue.
- French: Master 2 in French Literature.
Lebanese University – Faculty of Literature.
- English: Toefel.
- Spanish: Level 3 at the American Lebanese Language Center.
- Italian: 2 Courses at the Lebanese University, Faculty of Literature.

Softwares Knowledge:

- AutoCAD, Staad Pro, Robot (structural program: 2D and 3D studies including wind and seismic generation), Revit, Word, Excel/VBA, PowerPoint, Primavera, Autodesk Fusion 360, SPSS Statistics, C++, Electronic Workbench, Matlab, Mechanical Desktop, Fluent Computational Fluid Dynamics, ANSYS...

Professional Experience:**-February 2019 – present :**

University teacher at ISSAE - CNAM Lebanon (« Institut Supérieur des Sciences Appliquées et Economiques » : affiliated center to CNAM Paris and the Lebanese University):

Teaching the course: « Steel Construction and Wood » - Civil Engineering.

-2006 till present:

Head of Engineering department at Zaidan SAL – Lebanon (www.zaidan.com):

- Planning and implementing improvements in production and design departments for growth of business.
- Structural solutions and designs using Robot Millennium program: Formwork of tunnels, bridges, diaphragms, piers, pier heads, buildings...
- Design of steel elements, frames, trusses and cranes using the American steel structures codes (AISC, ASCE, LRFD and AISI cold-formed steel standard) and the French codes (CM66, NV65).
- Supervision and checking of approval, manufacturing and erection drawings.
- Optimization of the total weight and cost of projects (warehouses, low rise steel buildings and concrete formwork for bridges in an international market).
- Excel programming of calculation procedures and technical sheets for steel design.
- Design of new products as per international standards and moulds for the welding of steel items.
- Preventive maintenance actions and schedule for machines.
- Synopsis of User's manuals for Numerically Controlled machines (CNC lathes, pipes cutting machine and press brakes).
- Knowledge of ISO procedures and internal audits.
- Prefab houses design and calculation under variable wind and snow loads.

-2005:

Simulation of a Fuel Cell for hydrogen cars using Fluent finite element software (Computational Fluid Dynamics) as a final project for the Master of Mechanics.

-2004:

Design of a machine including pneumatic circuit, PLC programming and bread baking moulds as a final project for the engineering degree.

-2002-2003: Salesman for 2 years in the FIAT cars showroom at Dahr El-Sawan.

-2001: Trainee in the MITSUBISHI-MOTORS service station at Beirut for 2 months.

Hobbies:

- Professional writer in French: I wrote a novel called “La Belle et le Télépathe” (577 pages) published in 2017. Information available on my author page: facebook.com/georges.moussa.2017

- Mini-football coaching (Futsal) - Reading – Jogging – Swimming.

Additional Management and Engineering Certificates:

A- Specializations:

- Six Sigma Green Belt, University System of Georgia (4 courses) - *Verify this certificate at: coursera.org/verify/specialization/VE97G7FZXMFU*
- Autodesk CAD/CAM/CAE for Mechanical Engineering, Autodesk (4 courses) - *Verify this certificate at: coursera.org/verify/specialization/RK8H5P6EDDVD*
- IBM Data Science, IBM (9 courses) - *Verify this certificate at: coursera.org/verify/professional-cert/MHVXG9JTA3K5*

B- Courses (references available upon request):

- Autodesk Certified Professional: Revit for Structural Design Exam Prep, *Autodesk*
- 3D Printing Hardware, *University of Illinois at Urbana-Champaign*
- 3D Printing Applications, *University of Illinois at Urbana-Champaign*
- Agile Analytics, *University of Virginia*
- Managing an Agile Team, *University of Virginia*
- Business English: Management and Leadership, *Arizona State University*
- Trading Basics, *Indian School of Business*
- Creating a Portfolio, *Indian School of Business*
- Design your own Trading Strategy – Culminating Project, *Indian School of Business*
- Excel/VBA for Creative Problem Solving, Part 1, *University of Colorado Boulder*
- Personality Types at Work, *University of Florida*
- Relationship Management, *Rice University*
- Spanish Vocabulary: Meeting People, *University of California, Davis*
- Startup Valuation Methods, *Duke University*
- Supply Chain Management Strategy, *Rutgers the State University of New Jersey*
- The Neuromarketing Toolbox, *Copenhagen Business School*
- The Power of Macroeconomics: Economic Principles in the Real World, *University of California, Irvine*
- Psychodiagnostics and Psychological Assessment, *National Research Tomsk State University*
- Développement psychologique de l'Enfant, *University of Geneva*
- Apprendre comment apprendre (ACA) : Des outils mentaux puissants qui vous aideront à maîtriser des sujets difficiles, *McMaster University, University of California San Diego*

Examples of Special Formwork and Steel Work:

Bridge of 156m length – Kuwait: This Bridge includes abutment, piers, pier heads and 3 sections of 52 meters each among the supports. The formwork was made of shoring towers, I-beams, H200 wood beams and plywood while walls were made with steel panels and quick thread ties.

Tunnel – Janna – Lebanon: The tunnel formwork was made of curved steel beams supported by adjustable turnbuckles and steel frames. Each frame of the mould had a different curvature because of the changing shape of concrete. The whole system relied on wheels in order to be moved easily. The case study is available on the following link: <http://www.zaidan.com/zaidan/casestudies.php>

Variable diaphragm form for bridge – Kuwait: The diaphragm mould is build around pier heads in order to carry tons of concrete. The changing shapes of diaphragms especially at curves required a special design of an adjustable mould. End closures also have an adjustable angle to fit with the rest of the bridge.

Pier and pier head – Mdeirej – Lebanon: The size of these piers was the main challenge. At top, the pier head width becomes 14 meters. Also, their height required the use of platforms supported by climbing trestles 2.4 and 1.8 meters all around the piers.

Incineration building – Tripoli – Lebanon: A steel building of 25 meters height was built to protect an existing incineration plant in Tripoli. Requirements: 150km/h wind speed with exposure D (near sea).

Scaffolding – Beirut – Lebanon: This scaffolding system is the highest one in Lebanon. It is 120 meters height near Beirut River. The study was made for a system that could resist 160km/h wind with a permeable mesh on it as well as live loads on different working levels. Also, it takes into consideration the maximum allowable eccentricity of the vertical tubes. The French standard for scaffolding was applied for this purpose.

Pre-engineered buildings – Juba – South Soudan: For the South Soudan, 60 steel buildings were made of steel frames, purlins and sandwich panels. A whole village was built in few months. Some of the structures contained moving cranes. The whole was studied as per American norms and got the approval of international consultants.

Arch shape bridge above river – Kurdistan – Iraq: A bridge mould was fixed from both sides of a river. Pouring concrete started till reaching the middle where the 2 moulds were mantled together. The case study is available on the following link: <http://www.zaidan.com/zaidan/casestudies.php>

Space deck from tubular tubes – Jounieh – Lebanon: A steel roof was made of round tubes and nodes in a three dimensional module which generates a special, light, and esthetic structure.

Box culvert – Kuwait: Moulds with the shape of a steel adjustable table were used to pour culverts for sewage pipes and electrical wiring.