

## Curriculum Vitae

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**Profession:** Structural Engineer

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## Professional Memberships

- Member, Order of Engineers of Québec (Canada)
  - Member, Order of Engineers of Beirut (Lebanon)
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## Education

### M.Sc. in Civil Engineering

*McGill University, Montreal, Canada — 1996*

*Thesis: Analysis of Reinforced Concrete and Steel Frame Structure Simulation of Displacement and Plastic Hinges Development under Seismic Loads (Finite Element Analysis)*

### B.Sc. in Civil Engineering

*Beirut Arab University, Beirut, Lebanon — 1989*

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## Additional Training & Certifications

- **2023:** Construction Project Management, Cost & Control (LIU – Online)
  - **2018:** Engineering Operation Management Diploma (Order of Engineers – Québec)
  - **2014:** Structural Behavior under Seismic Loads (Order of Engineers – Beirut)
  - **2010:** SCGC Structural Design Standards, Canada
  - **2008:** Capacity Evaluation of Existing Bridges (University of Montreal)
  - **2006:** Office Building Design (CSA S16-01 – CISC, Canada)
  - **2004:** Health & Safety in Construction Sites (Montreal, Canada)
  - **2004:** Welding Certification (Industrial Training College, Montreal)
  - **2003:** AutoCAD 2002 Drawing Course (Dawson College, Montreal)
  - **2003:** CSA-S832 Seismic Guidelines (CSCE, Canada)
  - **2001:** Seismic Design of Steel Buildings (Concordia University, Canada)
  - **2000:** Canadian Highway Bridge Design Code (Montreal, Canada)
  - **1999:** Economics & Management (Concordia University, Montreal)
  - **1999:** Structural Analysis for Indeterminate Structures (University of Montreal)
  - **1998:** AutoCAD 14 Drawing Course (Longueuil, Quebec)
  - **1995:** Advanced Steel Design & High-Rise Building Design (Concordia University, Montreal)
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## Technical Skills

- **Software:** Stud Pro, Robot 2016, ETABS, SAFE, NONLACS, AutoCAD (2D/3D), Word, PowerPoint, MS Project
  - **Standards & Codes :** UBC2007, CAS-G40.20/21, A23.3-04, ACI-2002, ASTM-A500, AASTHO
  - **FIDIC Contractual Knowledge**
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## Professional Experience

### Resident Engineer

*Saudi-Tech & Geological Engineering JV / Spectrum Consulting Engineering, Kyrgyzstan*

**Aug 2020 – Marsh 2025**

**Project:** North-South Road Reconstruction (24 km), funded by SFD & IDB

#### **Duties:**

- Monitor and control project costs to ensure they stay within budget.
- Checking and approval of construction drawings, Monitor progress work and Control Interim Payment Certificate.
- Monthly progress report for the project.
- Applicable the specification of contract for ensuring the quality of work,
- Assemble and manage a project team
- Applicable FIDIC terms and Contract conditions

#### **Works included not limited:**

- Built 3 Pre-Stress Concrete bridges.
  - Storm water drainages work.
  - Diaphragm walls, Box culverts & Underpass.
  - Construction diaphragm anchors system to protect the road against sliding part of mountain.
  - Construction new main road, consolidation foundation soil, Pavement and furniture road,
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### Resident Engineer

*Spectrum Engineering Consultants s.a.r.l – Albania*

**May 2016 – May 2020**

**Project 1:** Elbasan-Tirana Highway Tunnel (USD 64M)

- Managed tunnel anchors, 6 prestressed bridges, drainage, underpasses, emergency units, slope protection

**Project 2:** Sewage Network & Pumping Stations in Durres City (USD 12M)

- Supervised RC tanks, micro-tunneling, power & HVAC systems, outfalls, sheet piling, and pump stations.

#### **Duties:**

- Monitor and control project costs to ensure they stay within budget.
- Identify potential risks and develop risk mitigation strategies.
- Maintain regular communication with the client to provide updates on project progress.
- Checking and approval of construction drawings, Monitor progress work and Control Interim Payment Certificate.
- Monthly progress report for the project.

- Applicable the specification of contract for ensuring the quality of work,
- Assemble and manage a project team
- Applicable FIDIC terms and Contract conditions

### **Works included not limited Project 1:**

- Earthworks, cutting and Filling, Road Foundation, Wearing Course.
- Use anchors system for tunnel excavation protection- segment I.
- Built 12 of Pre-Stress Highrise Concrete bridges.
- Storm water drainage works.
- Diaphragm walls, Box culverts & Underpass.
- Construction emergency control unit for the galleries of the tunnel.
- Construction diaphragm anchors system to protect the road against sliding part of mountain.

### **Works included not limited Project 2:**

- Construction RC structure Tow Pump Stations.
- Overflow structure with shoreline Outfall.
- Power supply distribution network to each pump stations including connection with the overhead medium line inclusive of Mechanical, Electrical, HVAC system, Instrumentation and control works.
- Sheet piles system and micro tunnel underneath the rail ways pass and existing buildings
- Two Huge RC Tanks underground 14m depth each for collect wastewater.

### **Construction Manager**

*Zakhem Construction Group – Senegal*

**Dec 2014 – Feb 2016**

**Project:** Tobene Thermal Power Plant (80 MW, USD 28M).

### **Responsibilities Handled**

- Preparing the site and liaising with other construction professionals.
- Develop the programmer of work.
- Use construction management software packages to plan smooth work flows.
- Safety control.
- Prepare monthly report and monitor produce shop drawings.
- Monitor works program execution.

### **Works**

- Excavation and filling, stabilization of access road
- Construction Retaining Walls.
- Built **5** huge fuel steel structure tanks 16m diameter.
- Construction foundation for **7** turbines and auxiliary transformers.
- Cable trenches, pipe lying duct bank.
- Foundation and steel structure for Boiler, condenser and aero refrigerant....
- Steel structure for Powerhouse, Administration, Pumping and control building.
- Foundation of steel structure for **5** shaft 35m high.
- Sub-station: foundation tower transmission lines and fire walls for transformers.

## **Construction Manager**

*Danash Contracting – Lebanon*

**Nov 2011 – Jan 2013.**

### **Works:**

- SIR DENIEH village: (QUORSATA pre-stress Bridge 100m length one span),
  - Execution 6 km of earthwork for foundation of road including Retaining walls and Drainages
  - Constructions of several residential buildings.
  - construction 4 Reinforced concrete water tanks with 9 m high.
  - Built three pump stations for head 250m each including all the electro-mechanical and electrical instruments required.
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## **Project Engineer / Coordinator**

*AECOM – Montreal, Canada (International Projects)*

**Oct 2001 – Mar 2011.**

### **National and international projects:**

**Canada (East and west coast), South America (Argentina, Cost Arica, Guatemala), Africa (Algeria and Ethiopia), Asia (Pakistan, India, Kazakhstan), South Korea.**

### **List of Dams, Power Plants & Design & Supervision**

(INDIA: Alan DAWING 360 MW), Chili (La CALAS 260 MW), Quebec-Canada (ROMAINE 3-395 MW, Eastmain1- 484 MW, TOULNUSTOUC 526 MW, Rehabilitation of CENTRAL Shawanigan3\_ 190 MW), ALGERIE (KAHRAMA 310MW), Ethiopia (Pylon Transmission Lines). Park AEOLIEN- BAIE DES SABLES (WIND TURBINE 110 MW)

### **Duties:**

Analysis and Design Steel and concrete and Press-structures, Review and approval Design Drawings, Prepare projects Documents and Specifications, assist in develop Project technical Reports for:

- Hydroelectric dams, wind farms, and transmission infrastructure
- Industrials and Highrise Buildings.

## **Site Technician**

*ADF Inc. – Washington, USA*

**Apr 2001 – Oct 2001**

**Project:** National Air & Space Museum (Steel Structures)

- Site supervision, steel installation, and foundation preparation
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## **Site Engineer**

*Industries Dynavent – Drummondville, Québec*

**1998 – 2000**

- Managed commercial/residential structures, road projects, quantity surveying, cost estimation, and structural bridge components
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**Site Engineer***Hourieh Contracting – Lebanon***1990 – 1993****Consultant:** Khatib & Alami

- Executed road, drainage, pipeline, tank, and pump station works across Beirut and southern Lebanon
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**Languages**

<b>Language</b>	<b>Spoken</b>	<b>Read</b>	<b>Written</b>
Arabic	Excellent	Excellent	Excellent
English	Very Good	Very Good	Very Good
French	Very Good	Very Good	Very Good