



Name: Dr. Mohammad Hany Yassin Rank: Assistant Professor Title: Acting Head of Civil Engineering Department

#### **Personal Information**

Nationality:	Canadian
AU Joining Date:	17 Apr 2016
E-Mail Address:	m.yassin@au.edu.kw

### **Professional Information**

Education:	<ul> <li>Ph.D.) Doctorate of philosophy in Civil Engineering</li> <li>ETS, Universite de Quebec Montreal, QC., Canada, 2015</li> <li>Thesis: Nonlinear Seismic Soil-Pile Interaction Analysis for Bridges Founded In</li> <li>Quebec Soil</li> </ul>
	- Certificate in University Teaching
	Concordia University, Montreal, QC., Canada, 2012
	- (M. A. Sc.) Master of Applied Science in Civil Engineering
	Concordia University, Montreal, QC., Canada, 2008
	Thesis: Post-Earthquake Fire Performance of Building Structures
	- Bachelor of Engineering B. Eng., Civil Engineering
	University of Damascus, Damascus, Syria, 2005
Specialization:	- Planning and Designing of Bridges
	- Structural Engineering
	- Seismic Design of structures
	- Structures Retrofitting with FRP
	- Seismic Soil-Structure Interaction
Current Academic Position:	Assistant Professor - Acting Head of Civil Engineering Department
Current Professional Positions:	- Licensed Professional Engineers Ontario (P.E.O. #100134143)



	- Member of American Society of Civil Engineering (ASCE #12346916)		
	- Member of Canadian Society of Civil Engineering (CSCE #096454)		
	- Oracle Certified Associate Programmer (OCA)		
	- Member of Syrian Engineers Syndicate, Damascus, Syria		
Previous	NA		
Administrative			
Position Held:			
Previous Academic Positions Held:	<ul> <li>2010-2012 Part-time Faculty Member, Department of Building, Civil &amp; Environmental Engineering, Concordia University, Montreal, QC., Canada</li> </ul>		
	- 2006-2009 Teaching Assistant, Department of Building, Civil & Environmental		
	Engineering, Concordia University, Montreal, QC., Canada		
Fellowships And	- December 2019 Australian Embassy Award of Wining Project in the College of		
Honors:	Engineering in AU, Kuwait		
	<ul> <li>December 2019 Award of Wining Project in the Civil Engineering Department, AU, Kuwait</li> </ul>		
	- April 2019 Award of Wining Project in the Civil Engineering Department, AU,		
	- 09/2011-05/2015 Research Scholarship FTS University de Quebec Montreal		
	OC. Canada		
	- 09/2006-04/2009 Teaching Assistantship. Concordia University Montreal. OC.		
	Canada		
	- 09/2006-04/2008 Research Scholarship, Concordia University, Montreal, QC.,		
	Canada		
Teaching	Summary of Academic Teaching Experience		
	Gulf Experience:		
Experience:	Gulf Experience:		
Experience:	Gulf Experience: - As an Assistant Professor in the Civil Engineering Department at AU I have		
Experience:	<ul> <li>Gulf Experience:</li> <li>As an Assistant Professor in the Civil Engineering Department at AU I have taught several courses including Steel Structures, Concrete Design, Analysis of</li> </ul>		
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	- Analysis of St	ructure, AU, from Summer 2016, until present
	- Strength of M	aterials, AU, Fall 2016 & Spring 2017
	- Solid Mechan	ics, AU, Summer semesters from 2015 till 2022 & Spring 2017
	- Civil Construc	tion, AU, Fall 2016
	- Engineering N	1aterials, AU, Summer 2016
	- Project Based	Learning units, AU, Summer 2016 until Spring 2017
	- Building Proje	ct Design, Concordia University, Fall 2010 & Fall 2012
	- Civil Project D	esign, Concordia University, Fall 2010 & Fall 2012
	- Applied Ordi	nary Differential Equations, Concordia University, Fall 2011,
	Auxiliary Tead	hing
	- Building Eng.	Design Project, Concordia University, Fall 2007, Winter 2007,
	Winter 2008,	Summer 2010, Auxiliary Teaching
	- Civil Eng. De	sign Project, Concordia University, Fall 2007, Winter 2008,
	Summer 2010	, Auxiliary Teaching
	- Design of Re	nforced Concrete Structures, Concordia University, Fall 2008,
	Auxiliary Tead	hing
	- Introduction	to Structural Dynamics, Concordia University, Winter 2009,
	Auxiliary Tead	hing
	- Mechanical A	nalysis, Concordia University, Winter 2006, Auxiliary Teaching
	- Mechanics of	Materials, Concordia University, Winter 2006, Winter 2007,
	Winter 2008,	Auxiliary Teaching
	- Numerical M	ethods in Engineering, Concordia University, Winter 2009,
	Auxiliary lead	hing
	- Probability a	nd Statistics in Engineering, Concordia University, Fall 2008,
	Auxiliary lead	ning
	- Statics, Conc	ordia University, Fail 2006, Fail 2009, Winter 2009, Auxiliary
	Structural Ar	alveis II. Concordia University, Winter 2008, Winter 2000
	- Structural Al	hing
	- Thermodynar	ning
	- Oracle Progra	mming PL/SOL SBS 2003-2004 Instructor
	- Oracle SOL S	35, 2003-2004 Instructor
	- Ms Project S	$RS_{2001-2003}$ Instructor
Industrial And	04/2013	Bridge Engineer
Technical	12/2015	International Bridge Technologies (SVSTBA IBT)
Experience:	12/2015	Montroal OC Canada
	Assigned	Montreal, QC., Canada
	Assigned	Efficiently accomplished all assigned tasks encompassing
	Tasks:	the analyses and design of bridges and general
		transportations structures including the following:
		<ul> <li>Performing structural design of roadway bridges</li> </ul>
		<ul> <li>Participating in the technical perpetration of</li> </ul>
		proposals
		<ul> <li>Coordinating production of relevant drawings and</li> </ul>
		their release for the execution of the work



	<ul> <li>Supervision of junior engineers and technicians</li> </ul>
	<ul> <li>Supporting the review and checking of bridge design including BOO and shop drawings</li> </ul>
	<ul> <li>Correspond to the comments of the reviewers and</li> </ul>
	checkers
	<ul> <li>Prepared technical reports</li> </ul>
	<ul> <li>Attend client meetings</li> </ul>
	<ul> <li>Attending staff meetings</li> </ul>
	<ul> <li>General administration work</li> </ul>
04/2009 -	Structural Research Engineer
03/2013	DRSR, École de technologie supérieure (ÉTS)
	Montreal, QC., Canada
Assigned	Worked on bridge projects administered and funded by
tasks:	the ministry of transportation of Quebec (Ministère des
	Transports du Québec) in which I performed the
	following tasks:
	<ul> <li>Analyzed and studied bridge structures in</li> </ul>
	accordance with the CHBDC (CAN-S6-06).
	<ul> <li>Performed 3D modeling for bridge structures with</li> </ul>
	SAP2000
	<ul> <li>Seismic rating for deteriorated bridge structure</li> </ul>
	<ul> <li>Performed soil-structure interaction modeling and</li> </ul>
	calculations for shallow and deep footings
	<ul> <li>Developed several designing excel sheets as per</li> <li>the CAN SC and AASUTO</li> </ul>
	the CAN-S6 and AASHTO
	- Sample Project: Structural rating of the lie
	d'Orleans Bridge (100-year-old Cable Stay bridge
	In Quebec City)
Details of Sa	male Mean Projects
New Champl	ain Bridge Corridor Project (November 2014- 2016)
Montreal. Ou	uebec. Canada
– Partici	nated in the proposal phase and the final design of the new
Champ	alain bridge During this project I performed the following
tasks:	and bruge. During this project i performed the following
– Design	ed the super structure of the east approach (340m total
length	and 110m in the main span) as per the Furo Code the CHDRC
and nr	oject specifications.
– Design	ed the intermediate nier dianhragms for the road ways and
the Tra	ansit corridor.
– Internr	reted design requirements and specifications as per the
nroiect	t specifications and design codes
p. 0je ci	



- Prepared structural models in order to determine design actions.
- Prepared design calculations report and Excel sheets.
- Detailed members and connections to comply with the project specifications, the design codes and standards.
- Coordinated with project team.
- Supervised drafting and checked drawings

#### <u>Goethals Bridge Replacement</u> (January 2014-October 2014) New York / New Jersey, USA

Performed independent design check for the bridge approach that includes four roadway structures and one railway bridge. The work consisted of checking the design of the roadway New York north bound and south bound, New Jersey north bound and south bound, and the Travis Spur railway bridge. During the project I performed the following tasks:

- Checked the design compliance with project specifications
- Checked the design compliance with the code and standards
- Prepared design check calculation.
- Built computer models and determined design actions.
- Performed several types of analyses (linear, nonlinear, static, dynamic, influence line, P-delta).
- Conducted special studies for local design and details.
- Prepared written reports
- Attended project meetings and participated in design conferences.
- Checked drawings and specifications compliance.

#### *The Ohio River Cable-stayed Bridge (April 2013- December 2013) Ohio, USA*

In this project I conducted an independent check on the main cable-stay bridge in which I performed the following tasks:

- Assisted in building the bridge computer models.
- Integrated the soil-pile interaction in the global model. Calculated the p-y curves and defined nonlinear springs in the global model
- Independent design check for the bridge substructure and foundation
- Independent design check for the floor beams and deck slab (transverse design check)
- Independent design check for the cable stay-girder anchorage assembly (FEA model)
- Independent design check for the girder and beams web opening, welds and splices.



<b>Research Interest:</b>	- Evaluation and Design of Bridge Structures; including Cable-Stayed, Box Girder	
	and Pre-Stressed Concrete and Steel Bridges	
	- Civil Engineering Materials	
	- Performance of Structures under Extreme Loading; including Impact	
	- Rehabilitation of Structures using FRPs	
	<ul> <li>Performance of Structures Strengthened with FRPs</li> </ul>	
	- Structural Performance of Buildings under Fire	
	- Data mining and Al applications in civil engineering	
Research Grants:	2020 2022 Two KEAS Posoarch Funds (DN20 25EV and DP20 15EE 01)	
Research Grants.	- 2020 - 2022 - Two KFAS Research runus (FN20-55EV and FR20-15EE-01)	
	- 2018-2019 AU research grant - RC-2017-18-SOE-CE-PR03	
	- 09/2011-05/2015 Research scholarship, ETS, University de Quebec, Montreal,	
	QC, Canada	
	- 09/2006-04/2009 Teaching Assistantship, Concordia University Montreal, QC.,	
	Canada	
	- 09/2006-04/2008 Research scholarship, Concordia University, Montreal, QC.,	
	Canada	
Research and	- Investigating the drivers and acceptance of sustainable materials in Kuwait: A	
Publications including	case study of CEB- DOI: 10.1016/j.cscm.2022.e01330	
Journal and Books:	- Out-of-Plane Structural Performance of Compressed Earth Block Walls	
	Subject to Quasistatic Loading - DOI: 10.1016/j.cscm.2022.e01330	
	- Modeling the Rutting Behavior of Asphalt Mixtures Obtained by Accelerated	
	Testing Device", Gulf Conference on Sustainable Built Environment, 2019,	
	ISBN: 978-3-030-39733-3	
	- Seismic Soil-Pile Interaction Analysis for Bridges Founded in Quebec Soil,	
	University of Quebec (Canada) 2015	
	- Post-earthquake Fire Performance of Building Structures, Concordia University	
	(Canada) 2008	
Paper Presentations	- Experimental Study on the Thermal Characterization of PTF Concrete-	
at Professional	DOI: 10.11159/iccste22.188	
Conferences:	Preliminary Study on the Effect of Adding Palm Tree Fronds to Concrete DOI:	
	10.11159/iccset22.189	
	- Optimizing the Thermal Resistance of Concrete Using the PTF Fibers, CIC 2020,	
	Doha. University of Qatar	
	- Assessment of Post-Earthquake Fire Performance of Steel-Frame Buildings	
	14th World Conference on Earthquake Engineering, Beijing, China October	
	2008	
	- Numerical Model for Assessing the Post-Earthquake Fire Resistance of wood-	
	stud wall CSCE 2009 Annual General Conference, St. John's, Newfoundland,	
	and Labrador May 2009	
	- Structural Performance of Stud Walls under Normal and Post-Earthquake Fire	
	Exposure The 2008 ASCE and SEI Structures Congress, Vancouver, Canada April	
	2008	
University Service	- As an Acting Head of Civil Engineering Department at ALL L have served on the	
including committee	following committees:	
Membership:		
•		



• Validation & Moderation Committee (member 2016-2021, Chair 2022	
<ul> <li>Curriculum Committee (member 2020-2021, Chair 2022 onward)</li> </ul>	
• Credit Transfer (CT) Committee (member 2020-2021, Chair 2022 onward)	
<ul> <li>PBL Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Students Appeals &amp; Complaints Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Labs &amp; Workshop Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Research &amp; Faculty Development Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Auditing &amp; QM Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Accreditation Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Departmental Disciplinary Committee (Chair 2022 onward)</li> </ul>	
<ul> <li>Academic Promotion and Appointment Committee (Chair 2022 onward)</li> </ul>	
• Structural units Committee (Member), Civil Engineering Department, AU,	
2017-2019	
- Academic Advisor, Civil Engineering Department, AU, 2017-present	
NA	
Distance Learning Committee (ALL 2020) (Member)	