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**Education:**

Degree	Major	Granting Institution	Location	Year	GPA
Ph.D.	Civil Engineering	Florida International University	Miami, Florida	2012	4.00/4.00
M.S.	Civil Engineering	Florida International University	Miami, Florida	2008	4.00/4.00
B.E.	Civil Engineering	Lebanese American University	Byblos, Lebanon	2006	3.97/4.00

**Academic Experience:**

Institution	Rank/Position	Location	Dates
Florida International University Dep. of Civil & Env. Engineering	Graduate instructor	Miami, Florida	2009, 2010
Florida International University Dep. of Civil & Env. Engineering	Teaching Assistant	Miami, Florida	2006 - 2011
Florida International University Dep. of Civil & Env. Engineering	Course Development	Miami, Florida	2006, 2008
Lebanese American University, Dep. of Civil Engineering	Teaching Assistant	Byblos, Lebanon	2002 - 2006

**Graduate Instructor:**

Institution	Course	Times Taught	Number of Students
Florida International University Dep. of Civil & Env. Engineering	Structural Analysis	2	34 , 38

**Teaching Assistant:**

Institution	Courses
Florida International University Dep. of Civil & Env. Engineering	Mechanics of Materials, Structural Analysis, Advanced Structural Analysis, Structural Dynamics, Reinforced Concrete Design, Prestressed Concrete Design, Steel Design, Project Planning, and Advanced Project Planning
Lebanese American University, Department of Civil Engineering	Statics, Mechanics of Materials, Reinforced Concrete Design, Advanced Reinforced Concrete Design, Concrete I and II for Architects

**Course Development:**

Institution	Course Title	Role
Florida International University Dep. of Civil & Env. Engineering	Advanced Concrete Mechanics	Assist In Developing and Preparing Course Manuscript
Florida International University Dep. of Civil & Env. Engineering	Mechanics of Materials Lab	Develop a New Lab Manual

**Undergraduate Academic Advising**

Assistant Undergraduate Advisor, Department of Civil & Environmental Engineering, Florida International University, 2007 – 2008

**ABET Accreditation**

Assist in preparing documentation for ABET Accreditation Review, Department of Civil & Environmental Engineering , Florida International University, 2008

**Research Experience**

- Developing & Implementing an “Enhanced Model for Combined Heat and Air Infiltration Energy Simulation” for Improved building Energy Simulation Accuracy.
- Sustainable Energy Design Applications of HAM & Hygrothermal Concepts.
- Multiphysics Simulation of the Hygrothermal Performance of Building Envelopes and Enclosures.
- Computational Fluid Dynamics (CFD) Simulation of Wind flow, Heat transfer and Air Infiltration.
- Building Energy Performance Simulation using U.S. DOE Building Energy Simulation Software.
- Developing an Artificial Intelligence Based Model for Predicting the loss of Capacity in Concrete Bridge Piles.
- Implementing Artificial Intelligence in Predicting Wind Pressure Coefficients for Low-rise Buildings.

- Study of the Performance of Tile Roofs Under Hurricane Wind Loading & Full Scale Hurricane Testing.
- Impact Testing of Building Components under Hurricane Conditions.
- CFRP Reinforced Concrete Finite Elements Simulations Under Static and Fire Loading.

### **Professional Work Experience**

- Civil Engineer - Trainee, Petrofac International, Sharjah, U.A.E ( 2004)
- GPS Surveyor, MIT Geodynamic Survey of Lebanon, Lebanon (2003 & 2004)
- Computer Aided Residential Building Design, Lebanon ( 2005)
- Steel Pedestrian Bridge Design, Jbeil Residential District, Lebanon ( 2004)
- Foundation Design, Chekka Waste Water Treatment Plant, Lebanon (2004)
- Computer Aided Water Network Design, South Lebanon Province, Lebanon ( 2004)

### **Scholarly and Professional Honors**

1. Dissertation Year Fellowship, Florida International University, Miami, FL (2011)
2. Chi Epsilon, National Civil Engineering Honor society
3. Phi Kappa Phi, National Honor Society
4. Golden Key International Honour Society
5. Marlin Engineering Firm Scholarship (2009)
6. American Society of Civil Engineers (ASCE) Scholarship (2007)
7. Honors Golden Pin (Four times), Lebanese American University, Lebanon (2002 – 2006)
8. High Distinction Dean's List, Lebanese American University, Lebanon (2001 -2006)
9. Massachusetts Institute of Technology (MIT) Achievement Certificate
10. Monsif National School High Distinction Golden Medal, Lebanon (2001)

### **Peer-Reviewed Journal Papers**

1. Younes, C., Abi Shdid, C. & Bitsuamlak, G. , Air Infiltration In Building Envelopes: A Review, *Journal of Building Physics*. 35, No. 3, January 2012.
2. Younes, C., Abi Shdid, C. & Bitsuamlak, G., Thermal Simulation Approach in DOE-2: Outline & Methodology Fundamentals. *Journal of Computer Aided Design*. In review.
3. Younes, C., Abi Shdid, C., Developing and Enhanced Model for Combined Heat and Air Infiltration Energy Simulation, *Journal of Building Physics*. Accepted January 2013
4. Younes, C., Abi Shdid, C., A Methodology for 3-D Multiphysics CFD Simulation of Air Leakage in Building Envelopes, *Journal of Energy and Buildings*. In review

### **Peer-Reviewed Conference Proceedings:**

1. Younes C. and Abi Shdid, C., "True Multiphysics Simulation of Air Leakage in Building Envelopes". Proceedings of the 2012 Engineering Mechanics Institute and 11th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability (EMI/PMC 2012), pp 16, June 2012.

2. Issa, Camille A., and Younis, Chadi, " Integrating Virtual Reality with Structural Aided Design System", Proceedings of 6th International Conference on Construction Applications of Virtual Reality, August 3- 4, 2006, Orlando, FL, USA

### **Research Reports:**

1. Mirmiran, A., Wang, T., Abi Shdid,C., Huang,P., Jimenez, D., & Younes,C., "Performance of Tile Roofs Under Hurricane Impact". Final Report CSL-070801, Florida Department of Community Affairs, through Florida International University International Hurricane Research Center, August 2007.

### **Invited Talks and Workshops**

1. USGBC & LEED Overview, Miami, April 2011
2. eQUEST, Building Energy Simulation, Miami, April 2011
3. Air Infiltration Modeling For Building Energy Simulation, Miami, March 2011

### **Professional Society Membership (Student Chapters)**

1. American Society of Civil Engineers , ASCE
2. American Concrete Institute, ACI

### **Computer Skills**

#### **Engineering and Design Software**

1. ANSYS
2. FLUENT
3. ADINA
4. DOE-2/ eQUEST
5. Robot Millennium
6. Robot CBS
7. ETABS
8. SAP2000
9. H2O Net
10. H2O Map
11. AutoCAD (2D and 3D)
12. Autodesk Inventor
13. Mathematica
14. Mathcad

15. Visual Basic

16. Visual Analysis

### **General Software**

1. Java
2. Microsoft office (Advanced)
3. Web Page Design

### **Languages**

Language	Proficiency Level
Arabic	Native Proficiency (S-5)
English	Full Professional Proficiency (S-4)
French	Limited Working Proficiency (S-2)
Spanish	Elementary Proficiency (S-1)

### **References**

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- Amir Mirmiran, Ph.D., P.E., Dean. College of Engineering and Computing, Florida International University, 10555 W. Flaglers St. Miami, Florida, 33174, Tel: +1 (305) 348-2522, E-mail: mirmiran@fiu.edu
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- Ton-Lo Wang, Ph.D., P.E., Associate Chair. Department of Civil and Environmental Engineering, Florida International University, 10555 W. Flaglers St., Miami, Florida, 33174, Tel: +1 (305) 348-3054, E-mail: wangt@fiu.edu
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