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**Caesar Abi Shdid, Ph.D., P.E.**

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 College of Engineering and Computing
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Education:

Degree	Major	Granting Institution	Location	Year
B.E.	Civil Engineering	Lebanese American University	Byblos, Lebanon	1999
M.S.	Building Construction	University of Florida	Gainesville, FL	2001
Ph.D.	Building Construction *	University of Florida	Gainesville, FL	2004
M.E.	Civil Engineering**	University of Florida	Gainesville, FL	2005

* Minor in Structural Engineering

** In Structural Engineering

Academic and Professional Experience

Institution	Rank/Position	Location	Dates
Florida International University Dep. of Civil & Env. Engineering	Senior Instructor	Miami, FL	1/2011 - Present
Florida International University College of Engineering & Comp	Director of External Programs	Miami, FL	7/2009 - Present
Florida International University Dep. of Civil & Env. Engineering	Instructor	Miami, FL	1/2006 – 12/2010
Hanna Homes Inc.	P3 and Cost Estimate Consultant	Boca Raton, FL	2/2007- Present
Florida International University Dept. of Civil & Env. Engineering	Coordinator Structures /Construction group	Miami, FL	8/2006 – Present
Florida International University Dept. of Civil & Env. Engineering	Undergraduate Program Director	Miami, FL	4/2008 – 6/2009
Florida International University Dep. of Civil & Env. Engineering	Director Center for Technology Transfer and Training	Miami, FL	1/2006 – 6/2009
Florida International University Dep. of Civil & Env. Engineering	Undergraduate Advisor	Miami, FL	1/2006 – 3/2008
Georgia Southern University Dep. of Construction Management	Assistant Professor	Statesboro, GA	8/2005 – 01/2006
University of Florida Dep. of Civil & Coastal Engineering	Post Doctoral Fellow	Gainesville, FL	12/2005 – 8/2005
University of Florida School of Building Construction	Graduate Instructor	Gainesville, FL	1/2002 – 12/2004

R Hyden Construction Inc	P3 Consultant	Gainesville, FL	1/2001 – 12/2002
University of Florida School of Building Construction	Teaching Assistant	Gainesville, FL	1/2000 – 12/2002
Institute of Geotechnics and Materials	Site Engineer	Beirut, Lebanon	6/1998 – 9/1999

Scholarly and Professional Honors

Award	Institution	Date
International Academic Research Award	University of Florida	2004
Rinker Foundation Award	University of Florida	2003-2004
Arthur Coia Scholar Award	University of Florida	2000-2004
Timberline Software Achievement Award	University of Florida	2000
Distinguished Dean's List	LAU Byblos, Lebanon	1994-1999
LAU Alumni "Highest GPA on Campus" Award	LAU Byblos, Lebanon	1995

Professional Society Memberships

Society	Grade	Dates
American Concrete Institute (ACI)	Member	2006 – Present
American Society of Civil Engineers (ASCE)	Member	2005 – Present
Prestressed/Precast Concrete Institute (PCI)	Member	2005 – Present
American Institute of Steel Construction (AISC)	Life Member	2004 – Present

Teaching Record

Course Number and Title	Times Taught	Class Size Range
Florida International University		
CCE 4001 Heavy Construction	2	24 - 32
CCE 4031 Project Planning for Civil Engineers	5	26 - 45
CCE 5035 Construction Engineering Management	1	36
CCE 5036 Advanced Project Planning for Civil Engineers	3	12 - 23
CCE 5405 Advanced Heavy Construction	3	10 - 21
CCE 5505 Computer Integrated Construction Engineering	1	15
CES 3100 Structural Analysis	4	31 - 48
CES 4605 Steel Design	1	36
CES 4702 Reinforced Concrete Design	7	34 - 52
CES 5106 Advanced Structural Analysis	2	21 - 48
CES 5517 Prestressed Concrete Design	1	28
CES 6707 Advanced Concrete Mechanics	1	8
CGN 4980 FE Review Seminar	6	40 - 62
CGN 5930 Design of Temporary Structures in Construction	1	22

Georgia Southern University		
TCM 2231 Steel Structures in Construction	1	41
TCM 2232 Concrete Structures in Construction	1	38
University of Florida		
BCN 2420 Statics and Strength of Material	7	39 - 46

Undergraduate Academic Advising

1. Faculty Advisor for undergraduate students, Florida International University, 01/2006 – 07/2008.
2. Faculty Advisor for ASCE Student Chapter, Florida International University, 01/2006 – 08/2008.

Administrative services

1. Director of External Programs for the College of Engineering and Computing, 07/2009 – present. In charge of all Distance Learning, Continuing Education, Executive Education, Professional Programs, Overseas Programs, and Dual Degree Programs for the College of Engineering and Computing at FIU (\$4.5M annual budget).
2. Director, Center for Technology Transfer and Training, Florida International University, 01/2006 – present. Includes: Construction Training and Qualification Program (CTQP), Maintenance of Traffic in Construction Zones (MOT), PE Review, FE Review, and Continuing Education).
3. Coordinator, Structures/Construction faculty group, Florida International University, Department of Civil and Environmental Engineering, 08/2006 – present. Includes coordinating: course offerings, textbook requirements, software acquisitions, program curriculum and requirements.
4. Undergraduate Program Director for the B.S. Civil Engineering program, 04/2008 – 06/2009. Responsible for all ABET accreditation issues, DAB meetings, curriculum changes, adjuncts assignments and supervision, student forums, faculty course evaluations, and others.
5. Director, Senior Design Lab, Florida International University, 08/2006 – 06/2009.
6. Coordinator, department course scheduling and curriculum changes, Florida International University, 08/2006 – 06/2009.

Departmental Committees

1. Member, Graduate program Advisory Committee (GPAC), Florida International University, 01/2006 – present.
2. Chair, Undergraduate program Advisory Committee (UPAC), Florida International University, 08/2008 – 06/2009.
3. Member, Undergraduate program Advisory Committee (UPAC), Florida International University, 01/2006 – 07/2008.
4. Member, ACCE Accreditation Preparation Committee, Georgia Southern University, 08/2005 – 12/2005.

New Courses Developed

Course Number	Course Title	Semester Approved	Catalog Year
CES 5xxx	Structural Loads on Buildings	Fall 2010	2011-2012
CGN 5xxx	Legal Aspects in Civil Engineering	Fall 2010	2011-2012
CGN 4510	Sustainable Building Engineering	Fall 2009	2010-2011
CGN 6030	Research Methods in Civil Engineering	Fall 2009	2010-2011
CES 6706	Reinforced Concrete Mechanics	Fall 2008	2009-2010

Masters' Theses

No.	Name	Committee Service	Title
1.	Younes, C.	Chair	An Artificial Neural Network Based Model for Predicting Loss of Capacity of Prestressed Concrete Bridge Piles.
2.	Karam, C.	Chair	Determining Residual Moment in Reinforced Concrete Columns Using Ultrasonic Waves.
3.	Mintz, B.	Member	Evaluation of the Cazaly and Loov Hangers.
4.	Liu, R.	Member	Wall of Wind Flow Characterization and Active Control of Turbulence.
5.	Prasad, I.	Member	Mechanical Properties of Self-Consolidating Concrete with Pozzolanic Materials
6.	Blessing, C.	Member	Mitigation of Roof Uplift Through Vortex Suppression Techniques
7.	Reyna, R.	Member	Reinforced Concrete Slab Bridge Vs. Post-Tensioned Concrete Slab Bridge
8.	Lopez, V.	Member	A Model for Sustainable Decommissioning of Buildings.
9.	Medina, R.	Member	Effect of Live-Load Distribution Factor Equations on the Design of Steel Bridges
10.	Rios, G.	Chair	Evaluating How Civil Engineering Students Perceive The Importance Of Ethics Education
11.	Burgos, J.	Chair	Detailed Cost Analysis of Concrete and Timber Residential Roofs
12.	Motta, A.	Member	The Geotechnical Conditions of the Tunnel for the Port of Miami
13.	Abutaam, A.	Chair	Structural and Material Properties of Calcium Sulfoaluminate Cement Concrete
14.	Adriazola, H.	Chair	FEM Simulation of Thermal Performance of Concrete Versus Timber Residential Super-Structures
15.	Bechtold, H.	Member	Coral Way Pedestrian Bridge Design Using Stay-Cables
16.	Pena, G.	Chair	Advanced Construction Process Simulation for Stadium Sitework Operations
17.	Williams, J.	Member	Pedestrian Bridge Design Along Maynada Street Using SAP2000
18.	Adam, A.	Member	Wind Engineering in Wind Energy Applications

Doctoral Dissertations

No.	Name	Committee Service	Title
1.	Zhu, J.	Chair	Accelerated Segmental Bridge Construction: A simulation-Based Model
2.	Perkinson, C.	Member	The Use of Computer Technology in Construction Contractor Organizations as a Total Jobsite Management Tool
3.	Farooqui, R.	Member	Achieving Zero Accidents – A Strategic Framework for Continuous Safety Improvement in the Construction Industry
4.	Panthi, K.	Member	A Framework for Modeling Pavement Maintenance Costs for Projects with Performance-based Contracts
5.	Younes, C.	Chair	Developing an Air Infiltration Model for Building Energy Simulation
6.	Hajali, M.	Chair	A Model For Continuous Measurement Of Drilled Shaft Diameter During Construction
7.	Ozcan, G.	Co-Chair	An Integrated Multi-Agent Framework for Optimizing Time, Cost and Environmental Impact of Construction Processes
8.	Kargarmoakhar, R.	Member	TBD
9.	El-Andary, E.	Chair	TBD

Books:

1. Abi Shdid, C. 2009. Advanced Project Planning for Civil Engineers. New York (NY): Person Custom Publishing. ISBN 978-0-558-27418-4.
2. Abi Shdid, C. 2009. Reinforced Concrete Mechanics. New York (NY): Person Custom Publishing. ISBN 978-0-5582-9156-3.

Peer-Reviewed Journal Papers:

1. Younes, C., Abi Shdid, C., and Bitsuamlak, G., "Air Infiltration in Building Envelopes: A Review". *Journal of Building Physics*, 35, No. 3., January 2012.
2. Abi Shdid, C., Mirmiran, A., and Wang, T., "Uplift Capacity and Impact Testing of Roof Tiles". *Practice Periodicals on Structural Design and Construction*, ASCE, 16, No. 3, pp. 121-129, August 2011.
3. Huang, P., Mirmiran, A., and Abi Shdid, C., "Performance of Tile Roofs Under Simulated Hurricane Impact". *Journal of Architectural Engineering*, ASCE, 15, No. 1, pp. 26-34, March 2009.
4. Flood, I., and Abi Shdid, C., "Rapid Multi-Dimensional Simulation of Transient Heat-Flow in Buildings Using Neural Network-Based Coarse-Grain Modeling". *Journal of Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, AI-EDAM, Cambridge University Press, pp. 18, November, 2007.

5. Flood, I., and Abi Shdid, C., "Developments in Coarse-Grain Modeling of Transient Heat-Flow in Buildings." *Journal of Computing in Civil Engineering*, ASCE, 21, pp. 379-382, September 2007.
6. Abi Shdid, C., Ansley, M., and Hamilton, H.R., "Visual Rating and Strength Testing of 40-Year Old Precast, Prestressed Concrete Piles." *Journal of the Transportation Research Board*, TRB, 1975, pp. 3-9, 2006.
7. Flood, I., and Abi Shdid, C., "Simulating the Thermal Behavior of Buildings Using an Artificial Intelligence Modeling Approach". *Journal of Computing in Civil Engineering*, ASCE, 18, pp.207-214, July, 2004.

In Review

1. Abi Shdid, C., and Flood, I., "Energy Efficient Building Design Using Artificial Neural Network-Based Thermal Simulation". *Journal of Architectural Engineering*, ASCE. In review.
2. Younes, C., Abi Shdid, C., and Bitsuamlak, G., "The DOE-2 Approach to the Thermal Simulation of Commercial Buildings", *Journal of Computer Aided Design*. In review.
3. Abi Shdid, C., and Hajali, M., "Determination of the Two-Dimensional Plastic Zone Size and SIF at the Crack Tip Using RKPM". *Journal of Applied Mechanics*, ASME. Accepted.
4. Hajali M., and Abi Shdid, C., "Exact Solution for Overhanging Slabs of Bridges under Arbitrary Concentrated Load Position". *Journal of Structural Engineering*, ASCE. In Review.

Peer-Reviewed Conference proceedings:

1. Hajali, M. and Abi Shdid, C., "Finite Element Evaluation of Modal Stresses in Cantilever Highway Sign Structures under Wind Loading". *Proceedings of the 2012 ASCE ATC-SEI Advances in Hurricane Engineering Conference*, ASCE, pp 11, October 2012.
2. Hajali, M. and Abi Shdid, C., "Effect of Dilation Parameter on the Stress Intensity Factor at the Crack tip Using RKPM". *Proceedings of the 4th International Conference on Crack Path*, pp 16, September 2012.
3. 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.
4. Hajali, M. and Abi Shdid, C., "Contribution of Side Resistance and Tip Resistance on the Total Axial Load Capacity of Drilled Shaft Foundations". *Proceedings of the 7th Seminar on Special Foundations Engineering and Geotechnics*, pp 15, June 2012.
5. Hajali, M. and Abi Shdid, C., "Three-Dimensional Finite Element Nonlinear Static Analysis of a Drilled Shaft Subjected to Axial Load". *Proceedings of the 29th Annual International Bridge Conference*, pp 14, June 2012.
6. Hajali, M. and Abi Shdid, C., "Determination of the Stress Intensity Factor at the Crack Tip Using RKPM Abstract Accepted". *Proceedings of the 46th U.S. Rock Mechanics /Geomechanics Symposium*, pp 18, June 2012.

7. Hajali, M. and Abi Shdid, C., "A Nondestructive Testing Technique for Continuous Measurement of Drilled Shaft Diameter during Construction". *Proceedings of the ACI Fall 2011 Convention*, October 2011.
8. Hajali, M. and Abi Shdid, C., "Evaluation of Highway Sign Structures and Modeling on SAP2000 for Wind Loading". *Proceedings of the Spring 2011 ACI Convention*, April 2011.
9. Flood, I., Abi Shdid, C., and Issa, R., "Course-Grain Method for Simulating the Thermal Behavior of Buildings". *Proceedings of the ASCE Fourth Joint International Symposium on Information Technology in Civil Engineering*, ASCE, pp 14, 2003.
10. Flood, I., and Abi Shdid, C., "Dynamic-Neural Modeling of Heat Transfer in Structures". *Proceedings of the Third International Conference on Engineering Computational Technology*, pp12, November 2003.

Research Reports

1. Mirmiran, A., Wang, T., and Abi Shdid, C., "Performance of Roof Tiles Under Static Uplift". *Final Report CSL-060701*, Florida Department of Community Affairs, through Florida International University International Hurricane Research Center, July 2006.
2. Abi Shdid, C., Mirmiran, A., and Wang, T., "Performance of Roof Tiles 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. Abi Shdid, C., "Applications of Neural Networks and numerical methods in Heat Transfer" M.E. Rinker School of Building Construction Faculty Seminar, University of Florida, FL, February, 2004.
2. Abi Shdid, C., "Applications of Neural Networks and Finite Elements in the Construction Industry" M.E. Rinker School of Building Construction: Construction Information Systems Lectures, University of Florida, FL, March, 2004.
3. Abi Shdid, C., "Probabilistic Construction Project Scheduling". PE Continuing Education Workshop, Florida International University, Miami, FL, April 2007.
4. Izquierdo, W., Abi Shdid, C., and Suksawang, N., "Concrete Exposure Day". Field seminar and workshop, Florida International University, Miami, FL, May 2007.
5. Abi Shdid, C., "Construction Risk Analysis for Projects". PE Continuing Education Workshop, Florida International University, Miami, FL, October 2007.
6. Abi Shdid, C., "Advanced Structural Analysis". PE Structural Review Seminar, Florida International University, Miami, FL, October 2007 - Present.
7. Abi Shdid, C., "Reinforced Concrete and Construction Engineering Review". PE Civil Review Seminar, Florida International University, Miami, FL, October 2007 - Present.

Funded Research Project Record

Date	Project Title and Principle Investigators	Funding Agency	Amount
2012	Florida MEP Technology Acceleration	NIST	\$185,000
2010	Smart Grid Strategic Training and Education PI: Abishdid	U.S. Department of Energy	\$350,000
2008	Safe-Up Remedial Action for Failed Pole/Base Plate Weld on High Mast Light Pole PI: Abishdid, and Suksawang	Florida Department of Transportation	\$30,000
2008	Cast-In-Place Aerated Lightweight Concrete Wall PI: Abishdid, and Suksawang	Fortified Homes, Inc.	\$34,000
2008	Performance of Gable End Wall Bracing Retrofit for Hurricane Protection PI: Mirmiran, Abishdid, and Suksawang	Florida Department of Community Affairs – Sub to International Hurricane Center	\$55,000 External
2008	Performance of Gable End Wall Bracing Retrofit for Hurricane Protection PI: Mirmiran, Abishdid, and Suksawang	Florida Department of Community Affairs	\$55,000
2007	Bridge Deck Cracking and Composite Action Analysis PI: Abishdid, and Suksawang	Rutgers University	\$47,700
2007	Performance of Tile Roofs under Hurricane Impact – Phase 2: Wall of Wind PI: Mirmiran, Wang, and Abishdid	Florida Department of Community Affairs – Sub to International Hurricane Center	\$94,274 External
2006	Hurricane Impact PI: Mirmiran, Wang, and Abishdid	Florida Department of Community Affairs – Sub to International Hurricane Center	\$30,073 External

Other Sources of Funding

Date	Funding Source	Funding Usage	Amount
2011	Division of External Programs	Faculty and staff salary. Graduate assistantships. Equipment, and facility construction.	\$3,420,000
2010	Division of External Programs	Faculty and staff salary. Graduate assistantships. Equipment, and facility construction.	\$2,670,000
2009	Division of External Programs	Faculty and staff salary. Graduate assistantships. Equipment, and facility construction.	\$1,446,000
2008	Miami Dade Water and Sewer Department	Faculty salary and staff salary.	\$120,000
2008	Center for Technology Transfer and Training	Departmental and Lab equipment, staff salary, Director summer salary, and Graduate student	\$262,000

		assistantships.	
2007	Center for Technology Transfer and Training	Departmental and Lab equipment, staff salary, Director summer salary, and Graduate student assistantships.	\$258,000
2006	Center for Technology Transfer and Training	Departmental and Lab equipment; staff salary, and Director summer salary.	\$265,000

Unfunded Proposals

Date	Proposal Title	Submitted To	Amount
2011	Drilled Shaft Resistance Based on Diameter, Torque and crowd	Florida Department of Transportation	\$242,000
2009	Residents Engaged in Neighborhood Enrichment through Workforce and Economic Development	U.S. Department of Labor	\$3,800,659
2009	Design and Construction of Precast Piles with Stainless Reinforcing Steel	Florida Department of Transportation	\$210,000
2008	Development of Improved Information Management Processes for FDOT Dispute Review Board System	Florida Department of Transportation	\$131,802
2008	Structural Analysis of Traffic Light Poles Under Hurricane-Force Winds	Miami-Dade Public Works	\$102,870
2008	Use of Aggregate Screenings as a Substitute for Silica Sand in Portland Cement Concrete	Florida Department of Transportation	\$145,000
2008	Thermal Performance of Buildings with Concrete Roofs	WRCS	\$94,750
2008	Wind load evaluation of open-walk-way attached to a low-rise building	Walker Design and Construction	\$51,400
2007	Adoption of Incentive Based Procurement Mechanisms in Public-owned Projects	Miami-Dade Public Works	\$98,200

Review Activities

1. Journal of Computing in Civil Engineering.
2. Journal of Computer Aided Civil and Infrastructure Engineering.

Consulting Services and Design Projects

1. Owner and President of Phoenicia Engineering and Consulting PLLC. A State-of-Florida licensed engineering and consulting firm.
2. Designed foundation-design software for micro piles and sheet piles using VB, 1999.

3. Site Engineer for highway pavement design, Institute of Geotechnics and Materials, conducting non-destructive insitu pavement assessment tests and pavement bores for material analysis, June 1998 – September 1998.
4. P3 planning and scheduling consultant for R Hyden Construction, Gainesville, FL. April 2001 – August 2001.
5. P3 planning and scheduling consultant for Hanna Homes Inc., Boca Raton, FL. 2006 – present.
6. Owner's representative site inspections with IGM. Check highway, sidewalk and curb construction, ensure compliance with design specifications, June 1997 – September 1997.

Professional Licenses and Certifications

License	Discipline	State/Country	Status	License No.
Professional Engineer	Civil	Florida	Current	70860
Professional Engineer	Civil and Structural	Lebanon	Current	34869
Structural Engineer	Structural	Florida	Current	70860
OSHA	Construction Safety	U.S.A.	Current	600596059

Computer Skills

1. ADINA finite element structural software
2. Adobe Illustrator
3. Adobe Indesign
4. Artificial Intelligence (Neural Networks)
5. AutoCAD
6. Decision Tools
7. FEHT (Finite Element Heat Transfer)
8. MathCad
9. MDSolids structural mechanics software
10. Microsoft Office
11. NASTRAN finite element structural software.
12. Primavera Expedition
13. Primavera Project Planner P3
14. SAP2000 Structural design and analysis software
15. Timberline
16. Visual Analysis
17. Visual Basic programming language

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