

Résumé

Name	Khair Al-Deen Isam Bsisu	
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e-mail	bsisu@yahoo.com	
Education	<p>Ph.D. Civil Engineering / University of Jordan, 2002. Thesis Title: Retrofitting of Square Reinforced Concrete Columns with Steel Jackets. Average: Very Good (GPA=3.27/4.0) Rank: Second out of five students.</p> <p>M.Sc. Structural Engineering / University of Jordan, 1989. Thesis Title: Shear Strength of Corrugated Steel Channel Filler Sandwiched Concrete Slabs. Average: Very Good (80.2/100) Rank: Second out of twelve students.</p> <p>B.Sc. Civil Engineering / University of Jordan, 1983. Graduation Project: Design and Detailing of King Abdullah Mosque (Main Frame, Dome and Minaret). Average: Very Good (80.6/100) Rank: Third out of fifty nine students.</p> <p>The General Certificate of Secondary education Exam, 1978 Average: 91.5/100</p>	
Experience	2009-present	<p>University of Jordan Lecturer, Faculty of Engineering and Technology, Civil Engineering Department. Courses: Statics, Engineering Mechanics, Structural Analysis 1 & 2, Reinforced Concrete Design 1 & 2.</p>
	2001-2008	<p>Al-Eman Housing Company L.L.C., Amman, Jordan. C.E.O., responsible for all the company's construction projects and operations in Jordan.</p>
	1991-2001	<p>Bsisu & Hmoud Engineering consultants, Amman, Jordan. Partner, manager, and senior civil engineer, responsible for the design and supervision of 100+ residential and commercial buildings in Jordan.</p>

	1987-1991	Ministry of public works and housing, Amman, Jordan. <ul style="list-style-type: none"> ▪ Senior civil engineer. ▪ Member of the tenders committee, responsible of technical evaluation of consultants and contractors. ▪ Delegate to the Nur-Al-Hussein Foundation responsible for the production of the design and tender documents of the foundation's projects. ▪ Member of the National committee for the mitigation of earthquake hazards in Jordan, responsible for setting up the national emergency plan in case of an earthquake.
	1983-1987	Shubailat & Badran, Amman, Jordan <ul style="list-style-type: none"> ▪ Assistant head of civil engineering dept. and structural designer. ▪ Project manager for the design of all steel framed structures and masonry buildings in the supplemental installation of the Jordan cement factory project, delegated to the main consultants "Holderbank and Heinzelman" in Switzerland. ▪ Manager of the computer graphics dept., and responsible for the production of the design drawings for the Grand Mosque in Saudi Arabia and the Queen Alia International Airport Housing Project.
Published Papers		<ul style="list-style-type: none"> ▪ Structural Assessment of a 40 Year Old R.C. Building, Advanced Materials Research, Vols. 163-167, 2011. ▪ Comparing the use of CFRP laminates with light gauge galvanized steel plates in structural strengthening of beams subjected to flexural loading, proceedings The International Conference on Structures and Building Materials (ICSBM 2011), Guangzhou, China, 2011. ▪ Retrofitting of Square Reinforced Concrete Columns Subjected to Concentric Axial Loading With Steel Jakets, proceedings of the Structural Faults and Repairs Conference 2006, Edinburgh, U.K., 2006. ▪ Effects of Residual Stresses on the strength of Battened Composite Columns, Dirasat Journal - Engineering Sciences , Yasser M Hunaiti; Khair Al-Deen Bsisu; Hamdan Irshidat Vol. 31, Issue 2, 2004, pages 252 - 269. ▪ Shear Strength of Corrugated Steel Channel Filler Sandwiched Concrete Slabs, proceedings of the Third International Conference on Earthquake Resistant Engineering Structures,

	<p>Malaga, Spain, 2001.</p> <ul style="list-style-type: none"> ▪ Ja'far Toukan, Jordanian Engineers Association Scientific Magazine, Vol. 30, No. 57, 1995. ▪ Real-World Engineering, a Guide to Achieving Career Success, Jordanian Engineering Association Scientific Magazine, Vol. 29, No. 55, 1994. ▪ Bond Stress, Nature and Analysis, Jordanian Engineers Association Scientific Magazine, Vol. 25, No. 46, 1990. ▪ Experience in Graphics Applications in Jordan, proceedings of the First National Conference for Computers and it's Applications in Jordan, 1986.
Conferences	<ul style="list-style-type: none"> ▪ The International Conference on Structures and Building Materials (ICSBM 2011), Guangzhou, China, 2011 ▪ The Structural Faults and Repairs Conference 2006, Edinburgh, U.K., 2006. ▪ 5th Conference on Fiber Reinforced Plastics for Reinforced Concrete Structures, Cambridge, UK, 2001 ▪ 2nd Worldwide ECCE Symposium on Information and Communication Technology in the Practice of Building and Civil Engineering, Espoo, Finland, 2001. ▪ 3rd Jordanian Civil Engineering conference, Amman, Jordan, 2001. ▪ The International Conference on Earthquake Engineering, Amman, Jordan, 1995. ▪ The international seminar on China studies, Taipei, Taiwan, 1994. ▪ Indo-Jordanian seminar on computer aided engineering design and software development, Amman, Jordan, 1990. ▪ Introductory workshop on future work and training for the assessment and mitigation of earthquake risk in Jordan, Amman, Jordan, 1987. ▪ The First National conference for Computers and it's Applications in Jordan, Amman, Jordan, 1986. ▪ The first international conference on concrete technology, Yarmouk University, Amman, Jordan, 1983.

<p>Research Interests</p>	<ul style="list-style-type: none"> • Follow up on the retrofitting technique studied earlier in my Ph.D. thesis: <ul style="list-style-type: none"> ➤ Applying this retrofitting technique to rectangular columns. ➤ Using fiber reinforced plastics (FRP) and compare it with my earlier findings. ➤ Study the effect of retrofitting columns on the connection to slabs and footings. ➤ Extend the research to retrofitting of other structural members such as beams, slabs and footings. • Investigation of rehabilitation techniques best suited for historic and archeological buildings and structures such that to increase the strength of the structures without altering it's original shape therefore extending it's life and preserving it's original beauty. • Look for new construction techniques to produce echo-friendly low-cost buildings; by using recycled materials either as a construction material or as an insulating material or both. • Using Nano-technology to study micro-cracks in concrete and their role in creep. This long term project will help better assess old structures and find more efficient ways to preserve historic and heritage buildings. • Seismic evaluation of existing structures and cost effective ways of seismic-retrofitting.
<p>Teaching ability</p>	<p>I have solid background in all civil engineering undergraduate courses and I have taken several graduate courses which enable me to teach the following courses:</p> <ul style="list-style-type: none"> • Statics • Strength of materials • Properties of concrete • Structural analysis I , II & III • Design of reinforced concrete I, II & III • Design of steel structures • Design of special structures • Design of high rise buildings • Bridge design