

# Curriculum Vitae

**Name** : Professor Samih Shaker Qaqish  
**Date of Birth** : Feb. 1, 1950  
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## Education:

**B.Sc. Civil Engineering,** Cairo University, Egypt, June 1972 (VERY GOOD AND  
DISTINCTION IN THE PROJECT)  
**M.Sc. Civil Engineering,** University of Arizona, Tucson, Arizona, U.S.A. June 1972. (WITH  
DISTINCTION)  
**Ph.D. Civil Engineering,** University of Arizona, Tucson, Arizona, U.S.A. June 1977. (WITH  
DISTINCTION AND SUPERIOR IN THE DISSERTATION).  
**Fulbright Scholarship,** 1990 Fulbright Scholarship at Case western University – Cleveland and  
Akron University, Ohio, U.S.A.

Fellow in American Society of Civil Engineers.

## Academic Experience:

**1974-1977** : Research and teaching assistant, University of Tucson- Arizona.  
**1979** : Assistant Professor in Civil Engineering-Jordan University and one of the  
People who established the Engineering College.  
**1980-1985** : Chairman of Civil Engineering Dept. Jordan University. In this period I was  
responsible for establishing all laboratories and curriculum.  
Member of Drafting Committee of Jordanian Codes.  
Member of College of Engineering Council.  
**1980-1987** : Structural Consultant for the Department of Engineering at Jordan  
University.  
**1981-1984** : Member in Housing Committee of Jordan University.  
**1984** : Member in Jordan University Council.  
Associate professor in Civil Engineering.  
**1989 to now** : Full Professor in Civil Engineering.  
**1990-1991** : Fulbright Scholarship in U.S.A.  
**1991-1992** : Chairman of Graduate Dept. for Engineering, Physics and Math/College of  
Graduates studies at Jordan University.  
**1992-1994** : Vice Dean of Graduate College for Engineering, Science and  
Agriculture/College of Graduate studies at Jordan University.  
**1994-1995** : Vice Dean of Graduate College for Engineering, Science, Agriculture, Nursing  
and Medicine/College of Graduate studies at Jordan University.

- 1994-1995** : Member in Scientific Industrial Committee for the Higher Council for Science and Technology.
- 1995-2002** : Founder and member of the Friends of Scientific Society at Jordan Universities.  
Member in Scientific Industrial Committee for the Higher Council for Science and Technology in Jordan.  
Member of Higher Council for Science and Technology.  
Member in Center for Consultation Council at University for Science and Technology – Jordan.
- 1995-2003** : Director of Center for Consultation, Technical Services and Studies, Jordan University.
- 2008 to now** : Chairman of Drafting Design code for Bridges in Jordan.
- 2009 ton now** : Member of Recognition Committee and Certificates Equivalence at Ministry of Higher Education and Scientific Research-Amman-Jordan.
- 2010 to now** : Member of Trustees Council of Balqa Applied University-Salt-Jordan.  
Chairman of Drafting code for Maintenance of Bridges in Jordan.
- 2011** : Dean, College of Engineering and Technology – University of Jordan.  
Member in the National Building Council, -Ministry of Public Works and Housing.
- 2011** : Member in the Center for Water, Energy and Environmental.
- 2012** : Member in the Permanent Technical Committee for Construction Contracts.
- 2012** : Member in the Committee of the Campus Site and Buildings Organization.
- 2012** : Member of the Advisory Committee to Follow up the Project of strengthen institutional capabilities to reduce the risk of disasters.

### **1973 to now Professional Experience:**

Structural Consultant for the Dept. of Eng. Jordan University .

I designed a lot of projects such as multistory buildings, bridges, and heavy structures, in Jordan and the Arab Countries.

#### **June/ 1973- June/1974:**

United Nations Branch at the Jordan Housing Corporation working on design of building especially Low-Cost Housing.

#### **July/1972- June/1973:**

Jouzy and Partners Consulting Engineering Bureau Participating in Design of multistory Concrete buildings, supervision on Culverts, retaining walls, frames and pavements on Amman-Zarqa Highway.

### **Publications:**

1. Application of Rate Equations in Nonlinear Structural Analysis published in Al-Dirasat, Jordan University, 1980.
2. Finite Element Analysis of an Orthotropic Steel Bridge Deck of Saudi Arabia Bahrain Causeway Project (First Part) published in Al-Dirasat, Jordan University, 1980.
3. Plastic Behavior of Beams with Web openings published in American Institute of steel Construction USA, 1982.

4. Post Buchling Behavior of Circular and catenary arches published in Al-Dirasat, Jordan University, 1983.
5. Stabilized Copper Mill Tailing and fly Ash for Brick Manufacture, Published in Al-Dirasat, Jordan University, 1982.
6. Finite Element Analysis of the orthotropic Steel Bridge Deck of Saudi Arabia Bahrain Causeway Project, (Second Part)
7. Experimental Evaluation of Several Chemical Stabilizers in Soil Erosion Control, Published in Al-Dirasat, Jordan University, 1982.
8. Stabilized Phosphate Waste Product for Brick Manufacture in Jordan, published in Al-Dirasat, Jordan University, 1986.
9. Performance of low cost Housing Sponsored by United Nation in Jordan, published in International Housing Journal in Florida, 1983.
10. Low Cost Housing in Jordan published in the International Housing Journal in Florida, USA, 1983.
11. Author of a book titled: The Variational Calculus and the Finite Element Method. Submitted to John Wiley publisher for evaluation.
12. Nonlinear Analysis of the Cantilever with Torsional restraint, published in Al-Dirasat, Jordan University, 1985.
13. Finite Element Analysis of the Main Structural system of an orthotropic Steel Bridge Deck, published in Al-Dirasat, Jordan University, 1985.
14. Satisfying the original Loaded at the TIP. , published in Al-Dirasat, 1986.
15. The use of chart in concrete structures Jordan, published in American concrete Institute, USA, 1988.
16. Nonlinear structural Analysis of Conservative System, published in computer and structures an International Journal. George Washington University. USA. 1988.
17. Design Remedies of High Rise Building presented at the Third International conference on Tall Building Chicago, Illinois, USA, 1985.
18. Comparison between Linear and Nonlinear Structural Analysis and using very small increments in solving Nonlinear Structural Analysis, published in Computer and Structures and International Journal, George Washington University, USA, 1989.
19. The use of Foam Concrete as insulating Material in Building, published in Al-Dirasat, Jordan University, 1988.
20. Author of two chapters in the Jordan Code of building titled:
  - Formwork.
  - Wall Building.
21. Buckling Behavior of Elastic Circular Arches, Journal of Engineering Mechanics, Vol. 117, No. 11, November, 1991, U.S.A.
22. Load Capacity Evaluation of T-Beam Bridges, Kerensky conference on Global trends in Structural Engineering 20-22, July 1994, Singapore.
23. The Effect of Horizontal Forces on Shear Walls with big Openings, accepted for publication in Computer and Structures an International Journal, George Washington University, USA.
24. Stress Distribution at the Corners of Skew Bridges published in the Conference Proceedings, 13<sup>th</sup> America Society of Civil Engineering, Engineering Mechanics Division, Baltimore, June 13-16, 1999.

25. The Effect of Horizontal Forces on Shear walls with Small Openings, Published in the Conference Proceedings, the Fourteenth Engineering Mechanics Conference the Conference Proceedings, the Fourteenth Engineering Mechanics Conference (EM 2000) at the American Society of Civil Engineers, Austin, Texas, May 21-24, 2000.
26. Earthquake Characteristic in Jordan, published in the Yarmouk Scientific Magazine, Yarmouk University, 2004.
27. Comparison between one dimensional and three dimensional models of box girder bridges, 1st International Structural Specialty conference, Canadian society for civil Engineering, Calgary, Alberta, Canada, 2005.
28. Comparison between one dimensional and three dimensional models of two continuous spans of box girder bridges. International conference on construction and building technology 2008, June 16-20, 208 Kuala Lumpur, Malaysia.
29. Chairman of drafting The Code of Bridges in Jordan, 2009.
30. Finite Element Analysis of Two Continuous skew spans of Box Girder Bridge and the Reaction Distribution at the edges with 49 Degrees skew angle. 2012 Orlando International Engineering Education Conference, U.S.A.

### **Area of Research Interest:**

1. Design and analysis of Bridges including skew ones.
2. Using waste and local materials in building.
3. Design of high rise building.

### **Organizing International Conferences:**

Responsible for organizing many international conference, the latest one was the Second International Arab conference in Structural Engineering.

### **Short Courses:**

- 1) Each year for the last 10 years I give two short courses at the Center for Consultation, Technical Services and Studies-University of Jordan.
  - A) Design of Cast insitu R.C. Bridges.
  - B) Design of prestressed concrete bridges.
- 2) Lecturing in short course on Maintenance of bridge Engineering which was held on Sacremento-California, 1990.
- 3) Also I gave many courses (more than 8 courses) for engineers in Application of Computer Programming in Structural Engineering using two programs Sap 90 & Staad III.

### **Short Courses :**

Attend a short course in Earthquake Engineering for three weeks in Skopje-Yoougoslavia.

### **Languages :**

Arabic: Mother tongue.

English: Excellent proficiency in speaking, reading and writing.

### **Teaching Courses :**

I thought most of the structural courses in the undergraduate and graduate level such as:

- Statics.
- Strength of Materials.
- Concrete Design.
- Steel Design.
- Bridge Engineering.
- Prestressed Concrete.
- Structures 1 and 2.
- Design of Multistory Structures.
- Dynamics.

### **M.s. Thesis :**

More than 45 students finished their M.S. thesis under my direct supervision.

### **Ph.D. Thesis :**

Two students finished their Ph.D. Program under my direct supervision.