

Personal information

Name: EL SMAILI
 First Name : Ali
 Date of Birth : 09 December 1972
 Country of birth : Lebanon
 Family situation : Married
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 KINGDOM OF SAUDI ARABIA

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Education and training

2001-2004 **Doctorate in Conception of Innovative Structures for Architecture.** Title of thesis: lightweight Structures (steel, tensile and fabric Structures). University of Montpellier II, France.

 2000-2001 **D.E.A. Diplôme d'Etude Approfondie (mechanics of material),** Doctorate training in spatial structure typologies: Concrete shells, bar systems, cable nets, textiles membranes, cable beams, cable domes, tensegrity systems. - Laboratory of mechanics and civil engineering -University of Montpellier II, France

 1993-1999 **Diploma of architectural high studies (D.E.S.A.)** University of Lebanon, Beaux Arts Institute, Lebanon

 1993 -

Professional Experiences

1993-1997 **SLIR, Société Libanaise des Industries Réunies** (Lebaneese institute of industries united), Assistant in the Design-Lab of architecture and construction

 Oct. 1996 **Construction of a petrol station and car wash.** Architectural conception and draughting of plans for construction, Lebanon.

 1997-1998 **AOUN B. architect:** responsible for the modelling workshop and draughtsman. Worked on the reconstruction of the Lebanon-Syria highway.

- 1998-2000** **SLIR, Lebanese society of industries united,**
responsible of the workshop on composite
materials: hollow bodies and reinforced
concrete, responsible of Architecture-Lab.
- Jan. 2005** **House (Villa 350m²),** architectural conception
and planning permission procedure, client (Zein
S.), Bekaa, Lebanon.
- Jan. 2005** **House (Villa 400m²),** architectural conception
and planning permission procedure, client
(Fayez S.), Bekaa, Lebanon.
- Mar. 2005** **Public Housing (3800m²),** architectural
conception and planning permission procedure,
client (Issa A. and Dayel F.), Louweizi,
Lebanon.
- Spt. 2005** **Public Housing (2700m²),** architectural
conception and planning permission procedure,
client (Sbii Touyon A.), Bayreuth, Lebanon.
- Nov. 2005** **Villa (600m²),** architectural conception and
planning client (Kano M.), Bahrain.
- Feb. 2006** **House (450m²),** architectural conception and
planning permission procedure, client (Smaili
H.), Bekaa, Lebanon.
- Apr. 2006** **Villa (375m²),** architectural conception and
planning permission procedure, client (Smaili
Kh.), Bekaa, Lebanon.
- May 2006** **House (1100m²),** architectural conception and
planning, client (Kassem M.), Kuwait.
- Jun. 2006** **Palas House and tow villas (8000m²),**
architectural conception and planning, client
(AL-Sagri S.), Riyadh, K.S.A.
- Aug. 2006** **Retail and office building (800m²),**
architectural conception and planning
permission procedure, client (Shouman N.),
Bekaa, Lebanon.
- Jan. 2007** **Villa,** architectural conception and planning
permission procedure, client (Youssef B.),
Bekaa, Lebanon.
- May 2007-
May 2008** **Tamimi Tents Company,** Head of Engineering
department. Riyadh, KSA

Educational Activities

- Sep. 2002 **Theoretical understanding in lightweight pre-stressed structures**, Textile structures, tensegrity systems., École Nationale des Ponts et Chaussées (ENPC), Paris, France
- Apr-Jul 2003 **Head of "architectural structures" workshop**. École d'Architecture Languedoc-Roussillon (EALR), France
- Jul. 2003 **Tensegrity grid associating different composite materials**. 5th year seminar. EALR-Grands Ateliers de l'Isle d'Abeau, France
- Sep. 2003 **Structural understanding of lightweight pre-stressed structures**, textile structures, tensegrity systems. ENPC, École Nationale des Ponts et Chaussées, Paris, France.
- 2003 - 2004 **Head of the architectural drawing skills class**. First year, École d'Architecture Languedoc-Roussillon, France.
- Sep. 2004 **5th structural morphology seminar, 4 workshops**: polyhedra, funicular forms, structures inspired by nature, surfaces. EALR- IASS (International association for Shell and spatial structure), France.
- Jan-Jul 2005 **Head of the structural understanding class**. Fifth year, University of Lebanon, Fine arts institute, Department of architecture, Bayreuth, Lebanon.
- Aug-Sep 2005 **Head of the civil engineering drawing skills class (using AutoCad)**. Fourth year, Lebanese International University (LIU), Department of Civil and Mechanical Engineering, Campus of Bekaa, Lebanon.
- 2005 - 2006 **University of Lebanon, Fine arts institute, Bayreuth, Lebanon.**
- o Head of the structural understanding class, Fifth year, Department of architecture.
 - o Head of the architectural drawing skills class (Using AutoCAD), Second year, Department of architecture.
 - o Head of the architectural drawing skills class (using hand), First year, Department of Interior Design.

2005 - 2006 Lebanese International University (LIU), Bekaa, Lebanon.

- o Head of the architectural drawing skills class:
 - o Perspective and rendering (Hand made), Department of interior & graphic design.
 - o Technical Materials, Department of interior design.
 - o Geometry for the studio, Department of interior & graphic design.

Aug-Sep 2006 Head of the civil engineering drawing skills class (using AutoCAD). Fourth year, Lebanese International University (LIU), Department of Civil and Mechanical Engineering, Campus of Bekaa, Lebanon.

Sep06- Mar07 University of Lebanon, Fine arts institute, Bayreuth, Lebanon.

- o Head of the structural understanding class, Fifth year, Department of architecture.
- o Head of the architectural drawing skills class (3D Max, Photoshop), Fourth year, Department of Interior Design.
- o Head of architectural modeling skills class, Fifth year, Department of Interior Design.
- o Head of the architectural drawing skills class (Using AutoCAD, 3D Max, Microsoft office), Second year, Department of architecture.
- o Head of the architectural drawing skills class (hand made), First year, Department of Interior Design.

Sep06- Feb07 Lebanese International University (LIU), Bekaa, Lebanon.

- o Head of the architectural drawing skills class:
 - o Lighting and HVAC, Department of interior Design, Fourth year.
 - o Architectural Modeling, Department of interior design.
 - o Geometry for the studio, Department of interior & graphic design.

Jul07-... King Saud University, College of architecture and planning, Riyadh, KSA.

- o Head of the following course: Integration systems- studio 07, Form and structure, Building construction 01,...

Meetings and congress

- Jun. 2002 *International Symposium for Lightweight Structures in Civil Engineering*, Warsaw, Poland.
- Nov. 2003 *Lagrange Colloquia*, European research group, Montpellier, France.
- Mar. 2004 *DOCTISS* conference, Montpellier, France.
- Sep. 2004 *International Conference for Shell and Spatial Structures from Models to Realization*, Montpellier, France.
- Jun. 2005 *International Conference for Shell and Spatial Structures*, Budapest, Romania.
- Oct. 2006 *IASS-APCS* (International Association for Shell and Spatial Structures - Asian Pacific Conference on Shell and Spatial Structures) *Symposium*, Beijing, China.
- Dec. 2007 *International Symposium for Architectural Engineering-Toward the future looking to the past*, Venezia, Italy.

Publications

- Jun. 2002 **Motro R., Smaili A. and Foucher O.**, Form controlled for tensegrity formfinding, Snelson and Emmerich examples, *proceedings of the International Symposium for Lightweight Structures in Civil Engineering*, 24-28 June 2002, Warsaw, Poland.
- Nov. 2003 **Smaili A., Le Saux C., Cévaer F. and Motro R.**, Pliage/dépliage de systèmes constructifs à barres et câbles, application aux systèmes de tensegrité, *Colloque Lagrange*, Novembre 2003, Montpellier, France.
- Mar. 2004 **Smaili A.**, Pliage/dépliage de Système de tensegrité, *DOCTISS*, 2 mars 2004, Montpellier, France.
- Sep. 2004 **Smaili A., Motro R. and Raducanu V.**, New concept for deployable tensegrity systems, Structural mechanisms activated by shear force, *International Conference for Shell and Spatial Structures from Models to Realization*, September 20-24, 2004, Montpellier, France.
- Jan. 2005 **Smaili A. and Motro R.**, Foldable/Unfoldable Tensegrity Systems, *Journal of the International Association for shell and Spatial Structures*, January 2005.

- Jun. 2005 **Smaili A. and Motro R.**, Foldable/Unfoldable Tensegrity Systems by Self-Stress Cancellation, *International Conference for Shell and Spatial Structures*, June 2005, Budapest, Romania.
- Oct. 2006 **Smaili A. and Motro R.**, Folding and Unfolding of Curved Tensegrity Systems by Finite Mechanism Activation, *IASS-APCS International Conference for Shell and Spatial Structures*, Beijing, China.
- Nov. 2007 **Smaili A. and Motro R.**, Circular & Spherical Foldable/Unfoldable Tensegrity Systems by Finite Mechanism Activation, *Journal of the International Association for Shell and Spatial Structures*, November 2007.
- 2013 **Motro R.(Ed.), Ali Smaili**, Flexible composition materials, In architecture, construction and interior Book. Birkhauser, Switzerland, ISBN 978-3-7643-8972-7, 2013.

Software

- Autocad, AutoCad mechanical, Autodesk Inventor Professional (... , 2015)
- Rhinoceros V5.0
- 3D Studio Max (Modelization, Rendering, Animation)
- Tekla V20 (Analysis, detailing, shop and fabrication drawing)
- STAAD2 Pro, SAP 2000 (Structure analysis),
- NDN, Forten (Fabric Conception, form-finding & Structural analysis)
- Tensegrity2000 (Tensegrity system analysis)
- Strand7 (structural analysis)
- Adobe Photoshop, illustrator, InDesign, Corel Draw
- M.O. (Word, Excel, PowerPoint...)

Langue

Arab-Mother tongue
 French-Fluent
 English-Advanced

Awards

TSUBOI PRIZE, for outstanding paper published in the proceedings of the 2006 International Association for Shell and Spatial Structures symposium.