

# CRISTIAN ANGELI (Building Engineer) - CURRICULUM VITAE

## 1) Biographical data

Born: Novafeltria (Italy), 04/07/1977

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## 2) Engineering degrees

- *Master Degree in building Engineering*, at Università degli Studi di Bologna, 13<sup>th</sup> December 2001, with degree mark 98/100;

- *Master Degree in building and architecture Engineering*, at Università degli Studi di Bologna, 17<sup>th</sup> March 2004, with degree mark 110/110;

- *Engineering Licence*, Bologna, 2002;

- *Professional Engineering registration (civil – environmental, industrial and information sector)*, Register of Province of Rimini (Italy), n°1179/A, from 2002.

## 3) Professional career

From 2003 is a freelance building engineer, planning and supervising building works, for private clients and public contracting authorities.

He also offers technical consultancy for companies and enterprises.

As part of the consulting activity carried out for companies in the sector, he gained experience in the industrial processes of production of expanded sintered polystyrene, from expansion to molding.

## 4) Specialisation

He is specialized in innovative construction technologies, with particular reference to "lightly reinforced load bearing walls", realized with polystyrene and reinforced concrete panels (ICF systems).

During this consulting activity, he has been scientific manager in special research agreements stipulated with:

- *University of Bologna (Department of Engineering DISTART), research agreement for the mechanical characterization and for the drafting of specific guidelines for the structural calculations, updated to the new Technical standards for buildings, DM 14/01/08*
- *University of Bologna (Department of Engineering DISTART), research agreement for the characterization of finishing concretes and for the determination of minimum thicknesses of concrete cover*
- *University of Bologna (Department of Engineering DIENCA), research agreement for the thermohygro-metric and acoustic characterization of ICF walls*

- *University of Pavia (EUCENTRE), research agreement for the mechanical characterization against cyclic dynamic actions (earthquake)*
- *ITC-CNR of Milan, determination of fire resistance (REI) and for the issue of Technical Eligibility Document (Mediterranean Agreement)*
- *Istituto Giordano spa of Rimini, static tests on slab floor panels realized with particular constitutive technologies, for acoustic tests in situ and for the evaluation of the effects of electromagnetic fields.*

He has worked abroad in the field of load-bearing wall systems, working closely with:

- *Institute of Eduardo Torroja of Madrid (Spain)*
- *Centre National d'Etudes et de Recherches intégrées du Batiments (CNERIB) of Algeri (Algeria)*
- *Institutul National de cercetare-dezvoltare in constructii si economia constructiilor (INCERC) of Timisoara (Romania).*

He personally planned and supervised structural building works in Italy, Romania and Spain, that were made with ICF system.

### **5) Teaching activities**

In 2006 and 2007 he held numerous lectures as a PhD student in the course of Technical Architecture at the University of Ferrara, Faculty of Engineering.

In December 2008 he received the position of "effective expert Member" in the Evaluation Committee for admission to the PhD in STRUCTURAL AND HYDRAULIC ENGINEERING at the University of Bologna (Department of Engineering DISTART).

### **6) Research and Publications**

He has collaborated with different editors and with Università of Ferrara (Department of Engineering), publishing articles and books:

#### 6.1) Scientific articles

6.1.1) *“Quality in vulnerability assessment of existing r/c structures”* - A. Tralli, M. Biolcati Rinaldi, A. Aprile, C. Angeli, ENDIF Department of Engineering University of Ferrara 2007

6.1.2) *“Criteria for controlling vulnerability of reinforced concrete existing buildings”* - M. Biolcati Rinaldi, C. Angeli, ENDIF Department of Engineering University of Ferrara 2007

#### 6.2) Technical articles

6.2.1) *“Calamities and seismic-resistant buildings”* - C. Angeli, in Quaderni di Legislazione tecnica n.3/2005

6.2.2) *“Design of reinforced concrete in seismic zones”* - C. Angeli, M. Pompili, in Quaderni di Legislazione tecnica n.4/2005

### 6.3) Technical manuals

6.3.1) *“Practical guide to structural design”* - C. Angeli, C. Stacchini, Maggioli 2003

6.3.2) *“Building design”* - M. Biolcati Rinaldi, C. Angeli, Sistemi editoriali 2007

6.3.3) *“Practical applications of construction”* - M. Biolcati Rinaldi, C. Angeli, Sistemi editoriali 2007

6.3.4) *“Building design”* - M. Biolcati Rinaldi, C. Angeli, Sistemi editoriali 2009

6.3.5) *“Constructive systems of load bearing concrete walls - ICF”* - C. Angeli, Legislazione tecnica 2018.

### **7) Conferences and workshops**

As a speaker he has attended at numerous conferences, round tables and seminars

7.1) *“Control of the requirement of mechanical strength and stability of reinforced concrete structures, on-site diagnostic investigations and criteria for the certification of structural quality”*, University of Bologna Faculty of Engineering, February 2003

7.2) *“Control of the requirement of mechanical strength and stability of reinforced concrete structures, on-site diagnostic investigations and criteria for the certification of structural quality”*, University of Bologna Faculty of Engineering, May 2003

7.3) *“Structural vulnerability of reinforced concrete buildings: control of the requirement of mechanical strength and stability of structures”*, Order of Engineers of Pesaro, June 2003

7.4) *“Technical standards for design, evaluation and seismic upgrading of buildings. From the legislative decree of 16 January 1996 to the new seismic regulation”*, Ponti Engineering, November 2003

7.5) *“Structural vulnerability of reinforced concrete buildings: control of the requirement of mechanical strength and stability of structures”*, Technical Institute for Surveyors “Einaudi”, Novafeltria (PU), April 2004

7.6) *“Energy performance in buildings, application problems”*, University of Ancona - Faculty of Engineering, February 2007

7.7) *“Energy efficiency in building”*, Conference room Hotel UNAWAY at Occhiobello (RO), October 2007

7.8) *“Thermoacoustic insulation and energy efficiency in building”*, Rimini, December 2007

7.9) *“Designing and building with new methods, reducing construction time and costs”*, Rimini, February 2008

7.10) *“Energy efficiency in building”*, Order of architects of Pescara, April 2008

7.11) *“New methodologies for the buildings construction”*, Confartigianato of Rimini, November 2008

7.12) *“Where is innovation in home building”*, Leonardo Hall at Fiera Milano, November 2008

7.13) *“Between project and construction”*, University of Ascoli Piceno, Faculty of Architecture, May 2009

7.14) *“Fragments of envelope: innovative materials and products for architecture”*, University “La Sapienza” of Rome, Faculty of Architecture, June 2009

7.15) *“Meeting of Eucentre supporters”*, Eucentre Pavia, September 2009