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- ❑ Born in Athens, Greece, on 9 March 1962.
- ❑ Citizen of Greece.
- ❑ Married, with three children.

**AREAS OF SPECIALIZATION**

Structural analysis and design with emphasis on steel structures, earthquake-resistant design, evaluation of ultimate capacity of structures under extreme loading including seismic, wind and blast, employing mostly numerical (finite elements) but also experimental and analytical methods, nonlinear behavior, structural stability, connections in steel structures, unconventional industrial structures, steel structures for energy applications, steel structures for marine applications, wind turbine towers, tension structures, deployable structures, buried pipelines.

**EDUCATION**

- ❑ Ph.D. in Structural Engineering, M.I.T., Cambridge, Massachusetts, 1991.
- ❑ Master of Science (S.M.) in Civil Engineering, M.I.T., 1988.
- ❑ Diploma in Civil Engineering, National Technical University of Athens, Greece, 1985.
- ❑ Abitur, German Highschool of Athens, Dörpfeld Gymnasium, June 1979.

**ACADEMIC ACTIVITIES**

- ❑ Professor, Institute of Steel Structures, Civil Engineering Department, National Technical University of Athens, Greece. He joined the NTUA faculty in 1994 as Lecturer (until 2000) and then served as Assistant Professor (2000-2004), Tenured Assistant Professor (2004-2007), Associate Professor (2007-2012) and Professor (since 2012). His academic activities and distinctions include:
  - Teaching of the compulsory courses "Steel structures I" (7<sup>th</sup> semester), "Steel structures II" (8<sup>th</sup> semester), the elective course, "Nonlinear behavior of steel structures" (9<sup>th</sup> semester) and the graduate course "Design of tension structures". His teaching has received consistently grades over 9 out of 10 in student evaluation forms.
  - Supervision of 117 diploma theses, 47 graduate theses as well as 7 completed and 4 ongoing Ph.D. theses. Several of the theses he has supervised have received awards from NTUA, the Technical Chamber of Greece, the Greek Metal Structures Research Society, the Greek Association of Computational Mechanics and the Hangai Prize Committee. Several of these theses have led to journal and conference publications. Two of his former students are now faculty members at U.C. Berkeley and McGill and three others in Greek Technological Institutions.
  - Research activity in the area of structural behavior, analysis and design under extreme loads, including seismic, wind and blast, leading structures to nonlinear response, with emphasis on steel structures. Participation in and direction of several research projects.
  - Author of one book on deployable structures (in English), one book on applications of special issues in structural steel design (in Greek), two sets of class notes on nonlinear behavior of steel structures and tension structures (in Greek), nine book chapters, 75 technical papers published or accepted in international journals, 140 technical papers published in proceedings of international conferences, and several technical reports.

- More than 800 citations of his research work (excluding self-citations and citations by co-authors) and a value of h-factor equal to 16, combining citations from search engines Scopus, ISI Web of Science and Google Scholar (<http://scholar.google.com/citations?user=1A-W7sYAAAAJ&hl=en>).
- Section Editor of “Structural Analysis for Earthquake Resistant Design” of the “Encyclopedia of Earthquake Engineering” by Springer Verlag.
- Member of the Editorial Committee of the Journal of the International Association for Shell and Spatial Structures (IASS) and of the Editorial Board of the International Journal of Space Structures.
- Correspondent for Greece of Structural Engineering International (SEI), the journal of the International Association for Bridges and Structural Engineering (IABSE).
- Alternate member of Technical Committee ELOT/TE 67 (Eurocodes) of the Hellenic Prototyping Organization (ELOT).
- Recipient of research awards by Fulbright Fulbright Foundation and the British Royal Society.
- Member of several Greek and international scientific and professional organizations and working groups, reviewer for more than 40 international journals and co-organizer of Greek and international conferences.
- Invited speaker at several Greek and international Universities.
- Invited speaker at continuing education seminars in several cities of Greece and Cyprus.

## PROFESSIONAL EXPERIENCE

- ❑ Consulting engineer, mainly active on design of buildings and other special structures made of steel, reinforced concrete and masonry.
- ❑ Collaboration with design offices and construction companies for structural consulting and design of a variety of projects related, among others, to:
  - Building structures, mainly:
    - ❑ Large-span steel structures for buildings, athletic facilities (including 3 major Greek football stadiums), industrial and commercial complexes
    - ❑ Design of new and strengthening of existing reinforced concrete and masonry buildings
  - Other special projects in Greece and abroad, including:
    - ❑ The steel gates for the New Panama Canal
    - ❑ Structures for the 2004 Athens Olympic Games
    - ❑ Energy related industrial structural applications
    - ❑ Buried pipelines transporting oil and natural gas
    - ❑ Highway infrastructure projects for “Attiki Odos”, the new Athens peripheral highway
    - ❑ Underground structures including tunnels and stations for Attiko Metro, the Athens subway
    - ❑ Transmission towers, guyed towers and wind turbine towers
    - ❑ Port and industrial facilities projects
- ❑ Member of expert committees for the resolution of technical differences.

## BOOKS AND CLASS NOTES

- Vayas, I., Gantes, C.J., Ermopoulos, I. and Ioannidis, G., “Application Examples in Special topics of Steel Structures”, Kleidarithmos Editions, Athens, 2013 (in Greek).
- Gantes, C.J., “Deployable Structures - Analysis and Design”, WIT Press, Southampton, 2001.  
<http://www.witpress.com/978-1-85312-660-4.html>
- Gantes, C.J., “Design of Cable and Membrane Structures”, NTUA class notes, in preparation (in Greek).
- Gantes, C.J., “Nonlinear Behavior of Steel Structures - Analysis and Design Implications”, NTUA class notes, in preparation (in Greek).

## EDITORSHIPS

- Gantes, C.J., Section Editor of the section "Structural Analysis for Earthquake Resistant Design" of the Encyclopedia of Earthquake Engineering, Springer Verlag, 2014.

## BOOK CHAPTERS

- Gantes, C.J., Bouckovalas, G.D., Melissianos, V.E. and Valsamis, A., "Pipeline - Fault Crossing: Structural Considerations on the Use of Flexible Joints for Mitigating a Potential Failure", *Jubilee Volume of Andreas Anagnostopoulos*, Athens, 2015.
- Gantes, C.J., "Seismic Analysis of Steel Buildings: Numerical Modeling", *Encyclopedia of Earthquake Engineering*, edited by M. Beer, E. Patelli, I. Kougiumtzoglou and I. Siu-Kui Au, Springer Verlag, 2014.
- Papageorgiou, A.V. and Gantes, C.J., "Mixed in-height Concrete-Steel Buildings under Seismic Actions: Modeling and Analysis", *Encyclopedia of Earthquake Engineering*, edited by M. Beer, E. Patelli, I. Kougiumtzoglou and I. Siu-Kui Au, Springer Verlag, 2014.

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- Vassilopoulou, I. and Gantes, C.J., "Nonlinear Dynamic Response of MDOF Cable Nets Estimated by Equivalent SDOF Models", *Computational Methods in Earthquake Engineering, Computational Methods in Applied Sciences*, Vol. 30, edited by M. Papadrakakis, M. Fragiadakis and V. Plevris, Springer Verlag, pp. 345-379, 2013.

doi: [http://dx.doi.org/10.1007/978-94-007-6573-3\\_17](http://dx.doi.org/10.1007/978-94-007-6573-3_17)

- Gantes, C.J., "Numerical Evaluation of Ultimate Bearing Capacity of Steel Structures", *Civil and Structural Engineering Computational Technology*, edited by B.H.V. Topping and Y. Tsompanakis, Saxe-Coburg Publications, Chapter 8, pp. 219-242, 2011.

doi: <http://dx.doi.org/10.4203/csets.28.8>

- Gantes, C.J., "Deployable Structures", *Fifty Years of Progress for Shell and Spatial Structures: 50<sup>th</sup> Jubilee of the IASS*, edited by I. Mungan and J.F. Abel, pp. 373-390, 2011.

- Gantes, C.J., "Nonlinear Structural Behavior, Analysis and Design of Deployable Structures", *NATO Science Series, Series III: Computer and Systems Sciences*, Vol. 179, edited by J. Ambrosio and M. Kleiber, IOS Press, pp. 215-235, 2001.

## JOURNAL PUBLICATIONS

- Melissianos, V.E., Gantes, C.J. and Kalfantis, P.P., "On the Buckling and Post-Buckling Behavior of Compressed Beams Resting on Elastic Foundation", *Jordan Journal of Civil Engineering*, submitted for publication.
- Olmati, P., Petrini, F., Vamvatsikos, D. and Gantes, C.J., "Simplified Fragility-Based Risk Analysis for Impulse Governed Blast Loading Scenarios", *Engineering Structures*, submitted for publication.
- Akgün, Y., Gantes, C.J., Kalochairetis, K.E. and Gkagka E.E., "A Proposal for a Convertible Stadium Roof Structure Derived from Watt's Six Bar Mechanism", *Engineering Structures*, submitted for publication.
- Dimopoulos, C.A. and Gantes, C.J., "Numerical Methods for the Design of Cylindrical Steel Shells with Unreinforced or Reinforced Cutouts", *Thin-Walled Structures*, submitted for publication.
- Margariti, G. and Gantes, C.J., "Linear and Nonlinear Buckling Response and Imperfection Sensitivity of Cable-Stayed Masts and Pylons", *Structural Engineering International*, accepted for publication.

- Dimopoulos, C.A., Koulatsou, K., Petrini, F. and Gantes, C.J., "Assessment of Stiffening Type of the Cutout in Tubular Wind Turbine Towers under Artificial Dynamic Wind Actions", *Journal of Computational and Nonlinear Dynamics (ASME)*, accepted for publication.  
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- Nistico, N., Gkagka E.E. and Gantes, C.J., "Roof Isolation with Tuned Mass-based Systems and Application to a Prefabricated Building", *Arabian Journal for Science and Engineering*, online first.  
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- Margariti, G. and Gantes, C.J., "Critical Buckling Load and Nonlinear Post-Buckling Response of Guyed Towers", *Journal of the International Association for Shell and Spatial Structures (IASS Journal)*, Vol. 55, No. 4, n. 182, pp. 229-235, December 2014.  
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- Mageirou, G.E., Gantes, C.J., Markou, K.P. and Bouras, C.G., "A Unified Approach for Assessment of Second-Order Effects and Sway Buckling Strength in Steel Portal Frames", *International Journal of Structural Engineering*, Vol. 4, No. 4, pp. 273-294, 2013.  
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- Hadjioannou, M., Douthe, C. and Gantes, C.J., "Influence of Cold Bending on the Resistance of Wide Flange Members", *International Journal of Steel Structures*, Vol. 13, Issue 2, pp. 353-366, June 2013.  
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- Gantes, C.J. and Bouckovalas, G.D., "Seismic Verification of High Pressure Natural Gas Pipeline Komotini-Alexandropoulis-Kipi in Areas of Active Fault Crossings", *Structural Engineering International*, Vol. 23, Number 2, pp. 204-208, May 2013.  
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- Vassilopoulou, I. and Gantes, C.J., "Nonlinear Dynamic Phenomena in a SDOF Model of Cable Net", *Archive of Applied Mechanics*, Vol. 82, Issue 10-11, pp. 1689-1703, October 2012.  
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- Dimopoulos, C.A. and Gantes, C.J., "Experimental Investigation of Buckling of Wind Turbine Tower Cylindrical Shells with Opening and Stiffening under Bending", *Thin-Walled Structures*, Vol. 54, pp. 140-155, May 2012.  
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- Kalochairetis, K.E. and Gantes, C.J., "Elastic Buckling Load of Multi-Story Frames Consisting of Timoshenko Members", *Journal of Constructional Steel Research*, Vol. 71, pp. 231-244, April 2012.

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  - Vassilopoulou, I. and Gantes, C.J., "Nonlinear Dynamic Behavior of Saddle Form Cable Nets under Uniform Harmonic Load", *Engineering Structures*, Vol. 33, Issue 10, pp. 2762-2771, October 2011.  
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  - Papageorgiou, A.V. and Gantes, C.J., "Equivalent Uniform Damping Ratios for Linear Irregularly Damped Concrete/Steel Mixed Structures", *Soil Dynamics and Earthquake Engineering*, Vol. 31, Issue 3, pp. 418-430, March 2011.  
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  - Pnevmatikos, N.G. and Gantes, C.J., "Control Strategy for Mitigating the Response of Structures Subjected to Earthquake Actions", *Engineering Structures*, Vol. 32, Issue 11, pp. 3616-3628, November 2010.  
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  - Akgün, Y., Gantes, C.J., Kalochairetis, K.E. and Kiper, G., "A Novel Concept of Convertible Roofs with High Transformability Consisting of Planar Scissor-Hinge Structures", *Engineering Structures*, Vol. 32, Issue 9, pp. 2873-2883, September 2010.  
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  - Vassilopoulou, I. and Gantes, C.J., "Vibration Modes and Natural Frequencies of Saddle Form Cable Nets", *Computers & Structures*, Vol. 88, Issues 1-2, pp. 105-119, January 2010.  
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  - Lemonis, M.E. and Gantes, C.J., "Mechanical Modeling of the Nonlinear Response of Beam-to-Column Joints", *Journal of Constructional Steel Research*, Vol. 65, Issue 4, pp. 879-890, April 2009.



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#### SUPERVISED DOCTORAL THESES

- Kostis Kalochairetis (Jan. 2014), "Nonlinear Behaviour and Design of Steel Built-Up Columns under Axial and Transverse Loading".
- Christoforos Dimopoulos (July 2012), "Stiffening of Manhole Opening of Steel Wind Turbine Tower Shells - Experimental and Numerical Investigation".
- Isavella Vassilopoulou (Nov. 2011), "Nonlinear Dynamic Response and Design of Cable Nets".
- Giorgos Mageirou (Feb. 2011), "Contribution to the Design of Multi-Story Steel Frames against Flexural Buckling".
- Thanasis Papageorgiou (Feb. 2011), "A Contribution to the Analysis Methods for the Seismic Design of Irregular in Height Concrete/Steel Structures".
- Nikos Pnevmatikos (Jul. 2007), "Design of Steel Structures with Automatic Control Methods".
- Minas Lemonis (Dec. 2006), "Beam to Column Joints in Steel Frames".

#### PARTICIPATION IN EDITORIAL BOARDS AND WORKING GROUPS

- Working Group 8 of the International Association for Shells and Spatial Structures on Metal Spatial Structures (IASS WG8) - Member (since 2012).
- Journal of the International Association for Shells and Spatial Structures (IASS Journal) - Member of the Editorial Board (since 2011).
- SEI (Structural Engineering International) - Correspondent for Greece (since 2010).
- ISCCBE (International Society for Computing in Civil and Building Engineering) - Member of the Board (since 2008).
- International Association for Bridges and Structural Engineering (IABSE) - Member of the E-Learning Board (since 2007).
- Advances in Structural Engineering, WIT Press (since 1998).

#### REVIEWER FOR INTERNATIONAL JOURNALS

International Journal of Space Structures, Zeitschrift für Angewandte Mathematik und Mechanik, International Journal of Solids and Structures, Computers & Structures, International Journal of Nonlinear Mechanics, Journal of the American Institute of Aeronautics and Astronautics, Mechanics Research Communications, Nonlinear Dynamics, International Journal of Impact Engineering, Japan Journal of Industrial and Applied Mathematics, Structural Engineering and Mechanics, Journal of Intelligent Materials, Systems and Structures, Journal of Engineering Mechanics, Journal of Structural Engineering, Journal of the International Association for Shells and Spatial Structures, Journal of Sound and Vibration, Engineering Structures, Materials Today, Mathematical and Computer Modelling, Journal



of Structure and Infrastructure Engineering, Soil Dynamics and Earthquake Engineering, IEEE Transactions on Aerospace and Electronic Systems, ISET Journal of Earthquake Technology, International Journal of Steel Structures, Journal of Pipeline Systems - Engineering and Practice, Advances in Structural Engineering, International Journal of Mechanical Sciences, Architectural Science Review, Arabian Journal for Science and Engineering, Journal of Civil Engineering of the Korean Society of Civil Engineers, Scientific Research and Essays, International Journal of Design & Nature and Ecodynamics, Bulletin of Earthquake Engineering, Steel and Composite Structures, Smart Structures and Systems, Journal of Mechanics of Materials and Structures, ASME Journal of Pressure Vessel Technology, Earthquakes and Structures, Structural Engineering International, Journal of Vibration and Control, Journal of Zhejiang University-Science A (Applied Physics & Engineering), Journal of Engineering Design.

#### FUNDED RESEARCH PROJECTS

- "ENSSTRAM - Novel Design Concepts for Energy Related Steel Structures using Advanced Materials", Aristeia II program, budget 296,000.00€, P.I. (2013-2015).
- "SeaWind - Performance Based Engineering of Offshore Wind Turbines", Program of Bilateral R&D Greece-Chine Cooperation 2012-2014, NTUA budget 150,000.00€, P.I. of the NTUA research team (2013-2015).
- "BridgeCloud - Model-Based Aeroelastic Analysis of Long-Span Bridges on the HPC Cloud", Eurostars Program, NTUA budget 20,000.00€, P.I. of the NTUA research team (2013-2015).
- "Nonlinear behavior of built-up steel columns", PEVE-2011 funded by the National Technical University of Athens, budget 18,000€, P.I. (2012-2013).
- "AIOLOS - Resolution of Complex Problems in the Analysis of "Next Generation" Wind Turbine Towers", Thalys program, group budget 76,590€, Prof. E. Sapountzakis as P.I. (2012-2015).
- "NAT-SEI-ISO - Innovative design of bridge piers on liquefiable soils with the use of natural seismic isolation", Thalys program, group budget 76,750€, Prof. G. Bouckovalas as P.I. (2012-2015).
- "DeReStAr—Development of structural DEsign REcommendations for Steel ARches", Marie Curie — Intra-European Fellowships, budget 116,808.55€, P.I. (2009-2010).
- "Dynamic wind-cable interaction", PEVE-2007 funded by the National Technical University of Athens, budget 15,000€, P.I. (2007-2009).
- "Development of flexible E-learning platform for the application of the Eurocodes by design engineers", Leonardo da Vinci/NFATEC, funded by the EU, Prof. I. Ermopoulos as P.I. (2007-2008).
- "Seismic design of mixed concrete-steel structural systems", PENED-2003 funded by the Greek Secretariat of Research and Technology, budget 69,000€, P.I. (2005-2008).
- "Beam to column joints in steel frames", Heraclitus program funded by the Greek Secretariat of Research and Technology, budget 34,466€, P.I. (2004-2006).
- "Analytical and experimental investigation for the development of new and the improvement of existing methods for the design and strengthening against explosions of fortification buried in the ground", funded by the Greek Army, budget 590,000€, Prof. G. Bouckovalas as P.I. (2004-2007).
- "Flexural-torsional buckling of homogeneous or composite bars with constant or varying cross-section of arbitrary shape", Pythagoras program funded by the Greek Secretariat of Research and Technology, budget 85,000€, Ass. Prof. E. Sapountzakis as P.I. (2004-2006).
- "A new and flexible approach for continuing education of engineers in the construction sector", Leonardo da Vinci/NFATEC, funded by the EU, Prof. I. Ermopoulos as P.I. (2003-2004).
- "Mobility and continuing education in Civil Engineering", Leonardo da Vinci, funded by the EU, Prof. I. Ermopoulos as P.I. (2001-2002).
- "Documentation and analysis of aging factors in buildings, influence on the bearing capacity and solutions", funded by the Foundation for the Advancement of Research of Cyprus, budget 28,400€CY, P.I. of the Greek side (1999-2001).
- "Studies of dynamic instabilities and postcritical behavior of deformable systems", INTAS cooperation with research teams from Russia, Prof. A.N. Kounadis as P.I. of the Greek side (1999-2001).

- "A safety study about explosives in the vicinity of natural gas transmission systems and a draft of safety rules", funded by the Greek Public Gas Corporation (DEPA), Ass. Prof. F. Rigas as P.I. (1998).
- "Dynamics of multi-degree-of-freedom and continuous mechanical systems with application to aerohydroelastic systems and smart engineering structures", INTAS cooperation with research teams from Russia, Prof. A.N. Kounadis as P.I. of the Greek side (1996-1998).
- "Seismic fragility of ancient monuments", Greece-Cyprus Research Cooperation, P.I. (1996-1998).
- "Optimal design of smart structures", Greece-Italy Research Cooperation, Ass. Prof. V. Koumouis as P.I. (1993-1995).
- "Eurocode No. 8 in the form of expert system", funded by the Council of Europe, Ass. Prof. V. Koumouis as P.I. (1992-1993).

#### PROFESSIONAL AND SCIENTIFIC SOCIETIES MEMBERSHIP

American Society of Civil Engineers, International Association for Bridges and Structural Engineering, International Association for Shells and Spatial Structures, Structural Stability Research Council, Association of European Civil Engineering Faculties, Technical Chamber of Greece, Greek Society of Civil Engineers, Greek Metal Structures Research Society (Member of the Board and Treasurer), Greek Society of Earthquake Engineering, Greek Association of Computational Mechanics, Greek Association of Theoretical and Applied Mechanics, Greek Scientific Society of Wind Engineering, Society for the Study of Ancient Greek Technology.

#### SELECTED AWARDS AND FELLOWSHIPS

Fulbright Foundation scholarship for graduate studies, Alexander S. Onassis Foundation scholarship for graduate studies, MIT teaching and research assistantships, Fulbright Foundation senior research grant, British Royal Society Fellowship.

#### SELECTED DESIGN AND CONSULTING PROJECTS

- Consultant for the checking of structural design of stations and viaducts of "Red Line South Elevated and at Grade" of Doha Metro in Qatar (2014).
- Consultant for the structural design of connections of pipe racks and pipe bridges in the project "General Cargo and Liquid Terminal at Port of Salalah" in Oman (2014).
- Consultant for the final structural design of industrial facilities of "Hellas Gold" in Stratoni, Chalkidiki (2014).
- Consultant for the structural design of a 368.152MW Power Plant Project in Hassi R'Mel, Algeria (2013-2014).
- Consultant for the structural condition assessment of the steel structure of the Air Cooled Condenser at Korinthos Power CCPP in Korinthos, Greece (2013-2014).
- Structural design of custom-made steel structures supporting the works for the reconstruction of an existing marine facility in Jorf Lasfar Port, Morocco (2013).
- Member of two Committees for Resolution of Technical Differences between the Greek State and the contracting consortium "Moreas S.A." concerning the time table and payment orders related to the construction of the Highway Corinth-Tripolis-Kalamata and the branch Lefktro-Sparta (2013).
- Participation in the structural design of industrial facilities of "Hellas Gold" in Perama Hill, Thraki (2012-2013).
- Consultant for the structural design of Samra Power Station - Fast Track Simple Cycle Combustion Turbine Power Project in Samra, Jordan (2012-2013).
- Consultant for the structural design of solid household waste treatment facility in St. Petersburg, Russia (2012).
- Consultant for the assessment of feasibility of lifting arrangement of unreinforced concrete blocks for the project "General Cargo and Liquid Terminal at the Port of Salalah", Oman (2012).
- Structural design of a hydrodemolition arm for scraping-off a surface layer of disintegrated concrete from caissons of an existing marine facility in Jorf Lasfar Port, Morocco (2012).
- Forensic investigation of the collapse of a steel sign bridge on the National Highway Schimatari-Chalkida (2012).

- Consultant for the design of steel superstructure supporting the heat recovery steam generators in power plant project in Denizli, Turkey (2012).
- Consultant for the tender structural design of Mechanical Biological Treatment plant (MBT) in Sofia, Bulgaria (2012).
- Consultant for the evaluation of available bearing capacity and strengthening of old steel cement loading tower damaged due to corrosion and ship impact in Vasilikos, Cyprus (2012).
- Consultant for the structural design of Waste Treatment Plant in Izmir, Turkey (2011-2012).
- Consultant for the structural design of Gas Power Plant in Shatt al Basrah, Iraq (2011-2012).
- Consultant for the structural design of a seawater supply pipeline network, part of a power generation and water desalination facility at Yanbu, Kingdom of Saudi Arabia (2011-2013).
- Consultant for the tender structural design of steel trestles, platforms and other harbour facilities in Vasilikos, Cyprus (2011).
- Participation in the structural design of industrial facilities of "Hellas Gold" in Stratoni, Chalkidiki (2010-2011).
- Consultant for the structural design of membrane structures in Kefalonia airport (2010-2011).
- Participation in the structural design of IKEA-Leroy Merlin facilities in Sophia, Bulgaria (2010-2011).
- Consultant for the seismic strengthening of the grandstand steel structures of the outdoor "Petra Theater" in Petroupoli (2010).
- Consultant for the seismic design of the steel gates for the New Panama Canal (2009-2010).
- Participation in the preliminary and final structural design of the new football stadium (22,000 seats) of the A-League Greek football team PAS Giannina, in Giannina, Greece (2009-2010).
- Participation in the construction structural design of several reinforced concrete buildings for the Blue City project in Oman (2009-2010).
- Consultant for the tender structural design of steel trestles, platforms and other harbour facilities in Azzawiya, Libya (2009).
- Consultant for the construction structural design of a power plant project in Thisvi, Greece (2009).
- Checking of structural design for all steel structures associated with the three major highways that are now under design and construction in Greece: PATHE, Ionia Odos and E65 (since 2008).
- Structural design of steel structures for the entrance canopies of Argyroupoli and Ellinikon metro stations (2008).
- Structural design of special auxiliary structures used by the contractor for the erection of bridges as part of the Khalifa port and industrial zone project in Abu Dhabi (2008).
- Failure investigation of steel scaffolding during construction of Chamezi Bridge, Crete (2008).
- Consultant for the influence of tunnel boring for the Thessaloniki metro on the buildings of the Aristotle University (2007-2008).
- Participation in the construction structural design of steel structures covering 50,000m<sup>2</sup> of the Athens Metropolitan exposition center next to the Athens International Airport (2007-2008).
- Investigation of bearing capacity of existing garage buildings of the Athens Trolley Company in Sepolia (2007).
- Participation in the preliminary, final and construction structural design of the new football stadium (42,000 seats) of the major Greek football team Panathinaikos, in Athens (2006-2009).
- Participation in the structural design of transformation of the International Broadcasting Center (I.B.C) of the 2004 Athens Olympic Games into a commercial and business center (2006-2008).
- Preliminary structural design of pumping house in methanol treatment and sea water desalination industrial facility in Salalah, Oman (2006).
- Consultant for the structural design of the indoor sports gymnasium "Theseus" in Antikira, Viotia (2006).

- Checking of structural design of coastal and sea platforms of Qatar Liquefied Gas Company in Qatar (2006).
- Structural design of temporary supports and Doka-type scaffolding system for concreting of sea platforms in Qatar (2006).
- Consultant for the structural design of a cable-suspended steel arch railroad bridge with 110m span and composite deck, connecting the Neo Ikonio Harbour with the central Greek Railroad Line, over an area of potential landslide (2006).
- Consultant for the structural design of the cable-suspended steel roof of a 15,000 seats indoor gymnasium in Krakow, Poland (2006).
- Participation in the special working group set up by the Greek Ministry of Public Works to investigate the reasons and consequences of a failure due to fire in one of the cables of the cable-stayed Rion-Antirion Bridge (2005-2006).
- Structural design of new steel roof for the replacement of an old one and strengthening design of reinforced concrete substructure in the 3,630m<sup>2</sup> repair base of the Athens Bus Company (2005).
- Structural design of 60m tall guyed tower for wind measurements (2005).
- Checking of structural and foundation design of three 49m tall wind turbine towers of type NEG-Micon 952 for a wind park in Xirolimni, Lasithi, Crete, Greece (2005).
- Foundation design of forty one 44m tall wind turbine towers of type Vestas for a wind park in Panachaiko, Achaia, Greece (2004).
- Verification of existing carrying capacity and evaluation of need for seismic strengthening of 3-story masonry building housing the offices of the Organization of Public Transportation of the city of Athens (2004).
- Checking of the structural design performed by S. Calatrava Design Office for the steel structure of Neratziotissa Railway Station (intersection of Metro Line 1, the Athens Suburban Railway Line and Attiki Odos Highway) in Athens (2004).
- Checking and modification of the structural design performed by S. Calatrava Design Office for the steel structure of the Entrance Canopies of the Athens 2004 Olympic Complex (2004).
- Verification of existing carrying capacity and design of interventions for seismic strengthening of 2-story preservable masonry building dating from 1870, of the Corinthian Grapes Association in Korakochori, Iliia, Greece (2004).
- Consultant for the structural steel connections design of a school complex in Lakkia, Greece (2003).
- Consultant for the tender structural design of the steel roof of the new Central Athens Railway Station in Athens, Greece (2003).
- Consultant for the structural design of the steel roof of spectators' stands in the new A.E.K. Soccer Stadium in Nea Philadelphia, Athens, Greece (2003).
- Structural modification design of steel pedestrian bridge at Kallithea Metro Station in Athens, Greece (2003).
- Participation in the verification of seismic performance of the Natural Gas Pipeline (Section Kipi-Alexandroupoli-Komotini) subjected to possible landslides and seismic fault activation, in Thrace, Greece (2003).
- Checking of structural design of space-truss steel towers of the Greek Navy on the island of Skyros, Greece (2003).
- Structural design of 50m tall guyed tower for wind measurements (2003).
- Checking of structural and foundation design of 53m tall wind turbine towers of type NEG-Micon of "TERNA Energy S.A." for a wind park in Servouni, Evia, Greece (2002-2003).
- Consultant for the structural design of the cable-suspended steel roof at the archaeological site "Aristotle's Lyceum" on Rigelis Street in Athens (2002-2008).
- Structural design of spectator stands for outdoor theatre and pedestrian bridge in the archaeological site of Ancient Olympia (2002).

- Participation in the evaluation of alternative structural systems for an arch cable-supported steel bridge with 162m main span over the Scito River in Columbus, Ohio (2002).
- Investigation of the cause of collapse of the stands' shelters of the "Nea Salamina" Stadium in Cyprus (2002).
- Structural design of 47.55m tall Vestas wind turbine towers and their foundation (2002).
- Structural design of steel hangar for Intralink factory in Thessaloniki (2002).
- Consultant for the structural design of membrane structures for the Olympic Center of Agios Kosmas (2002).
- Structural design of steel hangar for Nireas factory in Koropi (2002).
- Investigation of failure of steel hangar of Nireas factory in Evia (2002).
- Consultant for the tender structural design of the grandstands roof of the "Panpeloponisiakon" Stadium in Patra (2001-2002).
- Consultant for the tender structural design of the grandstands roof and lighting towers of the "Panthessalikon" Stadium in Volos (2001).
- Consultant for the tender structural design of the "Media Press Center" of the 2004 Olympic Games (2001).
- Evaluation of carrying capacity and strengthening design of composite toll stations along the Athens Peripheral Highway "Attiki Odos" (2001).
- Evaluation of carrying capacity, modification and strengthening design of a 250 m tall guyed tower of the Greek Navy in Kato Souli, due to nearby construction of rowing facilities for the Athens 2004 Olympic Games (2000-2001).
- Seismic design of the "Thessaloniki-Skopia Oil Pipeline" in areas of potential faults and landslides (2000-2001).
- Structural design of steel structures carrying traffic signs and signals along National Highway No 1 (2000).
- Consultant of structural and foundation design of a pile system to support the facilities of the Lefkas island marina (2000).
- Design of a variety of technical works supporting the new Athens peripheral highway (1999-2002).
- Consultant on the qualitative and quantitative assessment of the analysis and design against earthquake action of the underwater tunnel connecting Aktion and Preveza (1999).
- Consultant on the preliminary structural design (for bidding purposes) of airplane hangars in the new Athens international Airport in Spata (1999).
- Design of a composite steel and reinforced concrete industrial building of "Feedus" in Patra (1998).
- Checking of structural steel connections capacity in new facilities of the Greek Refineries in Aspropyrgos (1998).
- Preliminary design of a 9-span composite bridge at the intersection of Athens-Patra and Athens-Thessaloniki highways (1998).
- Determination of reasons for excessive deflections of a 60 m span, Vierendel-type, steel pedestrian bridge over Kifisos River in Athens (1997).
- Checking of structural design of 40m to 65m high conical steel towers supporting wind generators made by Zond, subjected to wind and earthquake loads (1997).
- Participation in an investigation of the effects of a potential landslide on the pipeline of the Greek natural gas transmission system at location Antinitza (1996).
- Design of a composite steel and reinforced concrete building of "VIANOX-Svolos" covering an area of 11,000m<sup>2</sup> in Mandra (1996).
- Loading specifications for the steel towers of the mobile radio system set up for the maintenance of the Greek natural gas transmission system (1995).



- Checking of structural design of the temporary and permanent structures for the stations Panormou, Attiki, Neos Kosmos, Analatos, Megaro Mousikis and Evangelismos of the new Athens subway system (1994-1997).
- Structural design of seawater purification station for electric power plant on the island of Kos (1994).
- Structural design of steel structure used as yoghurt storage facility of DELTA A.E. near Patra (1994).
- Structural design of steel structure used as extension of an existing reinforced concrete ice-cream factory of DELTA S.A. in Tavros, Attica (1994).
- Checking of structural design of reinforced concrete electric power plant on the island of Kos, redesign of some parts (1993-1994).
- Checking of load bearing capacity and structural strengthening design of composite steel-reinforced concrete storage facilities of K.A.L. S.A. in Peiraias (1993-1994).
- Participation in structural design of DELTA S.A. industrial facilities (steel structure used as yoghurt and ice-cream factory) in Agios Stefanos, Attica (1992-1994).
- Structural failure analysis of a 1800 ft tall guyed tower that collapsed under wind and ice loads in Tulsa, Oklahoma, U.S.A. (1989-1990).
- Checking of structural designs of bridges, culverts and conduits with total budget of 308.580.000 drh. and airport facilities in Karpathos, Lamia and Mitilini with total budget of 178.600.000 drh., as member of the design department of the Military Office for the Construction of Public Works (SYKEA), Athens (1985-1987).

#### MILITARY SERVICE

Greek Airforce, 2<sup>nd</sup> Lieutenant, 1985-1987.

#### LANGUAGES

Greek (native), English, German.

#### REFERENCES

Available upon request.