

Jason Charalambides

Licensed Architect & Civil-Structural Engineer

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Key Competencies:

- Registered Architect (AIA), Engineer (PE, M.ASCE), and Sustainability Professional (ENV SP)
- Experienced in programming and BIM
 - Microstation, Generative Components, AutoCAD* - programs used for CAD and BIM
 - MathCAD, STAAD.Pro - computer programs used for structural analysis and design
 - VB, VBA, C - programming languages (Integrated code routines to BIM for generation of advanced geometric forms)
- Development of customized computer programs integrating to BIM/CAD software
- Organizational ability, Application of Continuous Quality Improvement (CQI), Creative out-of-the-box problem solver, Developed applied Communication Skills and Leadership
- Expertise in Risk Analysis and Decision Making processes (also expertise in use of appropriate software for statistical and risk analysis)
- Actively preparing to take the SE certification by October 2020

Professional Licenses & Societies:

- American Institute of Architects (AIA) (#3015724, Registrations: FL, MD, TX, DC)
- American Society of Civil Engineers (M.ASCE) (#449108, Registrations: MD, MI, TX)
- National Council of Architectural Registration Boards (NCARB# 83290)
- Institute for Sustainable Infrastructure (ISI) (ENV_SP – Charter Member of the ISI)
- Structural Engineering Institute (SEI) (Vice President of Board of Directors - MD)
- Technical Chamber of Cyprus (ETEK) (Architect & Engineer License # AO-78986)

Education:

- PhD in Civil Engineering - University of Texas at Austin, May, 2004
- Master of Architecture - University of Texas at Austin, August, 1998
- Bachelor of Arts - University of California at Berkeley - Architecture, December, 1990

Professional Record:

Avant-Garde Engineering LLC (Co-owner and Principle of Architecture and Structural Engineering)
Fall 2000 - Present

- Registered Architect and Engineer. *For sample works, Portfolio available upon request.*

Institutional and residential projects, participated in Architectural competitions, applied Sustainability processes pertaining to energy, social, and economic aspects.

- Small to medium scale design buildings (Residential, Commercial, Institutional)
- Project management and pre-project-planning conducting feasibility studies and establishing optimized project scope
- Restoration/Rehabilitation of commercial & residential units, Redesign spaces for change of occupancy and establish conformity to pertinent codes
- Residential and commercial forensics w/ field observations & reports on structural damages and proposals for repairs
- Collaboration with larger architectural firms offering specialized design services in both architecture and engineering

* Used extensively for many years until upgraded to Bentley Microstation for capabilities in 3D and higher efficiency.

Corgan Associates Inc, (Dallas Texas) 1998 - 1999.

-Architect intern

Design process and Construction documentation in larger scale residential, institutional and multi-function architectural projects.

Kythreotis and Associates architectural firm (Nicosia, Cyprus), 1995 - 1996.

-Collaboration on the working drawings of the new Cyprus House of Representatives - first prize awarded to Kythreotis and Associates (Nicosia) /Kohn Petersen Fox (London), collaboration on design for the competition entry for the new Supreme Court House in Nicosia.

Marseille Habitat (City of Marseille, France), 1994.

- Architect / Manager

Patrimonial Analysis, Evaluation and Urban Reconstitution for the Operational Management of the "Périmètre Restoration Immobilier" (Perimeter of Building Restoration) of the Belsunce quarter in the old central part of the city of Marseille. Work also included measured drawings of buildings and design of refurbished older structures.

Community and Professional Service:

- SEI Vice President - Board of Directors of Structural Engineering Institute of MD 2018-Present
- AIA Baltimore, ARE Structural Systems Exam Instructor, Since 2014-17
- ASCE Journal of Architectural Engineering Associate Editor, Since 2016
- ASCE Journal of Construction Engineering and Management reviewer, Since 2007
- Standards Committee ASCE/SEI 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Since 2017

Academic Record:

Since the beginning of my academic career I constantly engaged in Architectural and Engineering projects and competitions and made it a point to bring my students to visit the sites of projects I would work at to get exposure to the practice.

Courses Taught:

- ***Civil & Architectural Engineering:***

- Reinforced Concrete Design, Steel Design, Statics and Strength of Materials, Computer and Numerical Methods for Engineers

- ***Architecture:***

-Advanced Structural Systems, Architectural Studio (Introductory, Intermediate, and Advanced level), History and Theory of Architecture (Survey), Building Technology and Environmental Controls, Computer Aided Design and Graphics

- ***Construction Management:***

- Building Materials and Methods, Real Estate Project Management

Academic Institutions:

- Morgan State University / Department of Architecture, Assistant Professor, 2014 - Present
- University of Wisconsin - Stout / Department of Construction, Assistant Professor, 2009-14
- California State University at Fresno / College of Engineering, Assistant Professor, 2006-09
- Frederick University (Cyprus) / Department of Architecture, Assistant Professor, 2004-06.

- University of Texas at Austin / Department of Architectural Engineering, Lecturer, 1999-2004.

Awards & Grants:

- Journal of Architectural Engineering ASCE, Outstanding Reviewer Award, (April 2016)
- Vanguard Software Corporation, donation of \$158,400.00 system licenses for registration of Construction Management program for research conducted at California State University at Fresno to incorporate Risk Analysis /Decision Making within a Building Information Modeling environment (October 2007).
- Peterson Prize competition, third place nationally, representing the University of Texas at Austin Architecture/Historic Preservation program (July 1998).
- Fulbright Commission Scholarship (Cyprus America Scholarship Program) for the "Master of Architecture" degree (October 1995).

Selected publications:

- Y. Gebermariam, J. Charalambides: "Sustainable Rehabilitation in the City of Baltimore; Study of the Potential Offered to Minimize Carbon Footprint and Remain Attractive to Potential Investors" International Conference on Sustainable Infrastructure 2019, LA, CA, Nov. 7-9/19.
- Jason E. Charalambides, "Rediscovering the essence in a classical order through analysis and deconstruction: A contradicting study through the methods of John Ruskin and Jacques Derrida." International Journal of Architectural Research Vol. 13, Issue 1. March 2019.
- Jason Charalambides, "Review of Zero Emissions Buildings by Anne Grete Hestnes & Nancy Lea Eik-Nes (EDS)", Fagbokfolaget, Bergen, NO 2017, ISBN: 978-82-450-2055-7 in Journal of Architectural Engineering, December 2018 Volume 24, Issue 4.
- Jason E. Charalambides, Katherine A. Liapi, "Square Base Double Layer Tensegrity Structures: Geometric relations for modular Tensegrity assemblies." Journal of Architectural Engineering, ASCE, Vol 23, No. 3.
- Joseph Wright , Jason Charalambides, "The Effect of Adding Polyacrylamide (PAAm) Crystals to the Strength Characteristics of Concrete." 2014 Intl. Concrete Sustainability Conference, Boston, 05/2014.
- Jason Charalambides, Joseph Wright. (2013). "Effect of Early Solar Energy Gain According to Building Size, Building Openings, Aspect Ratio, Solar Azimuth and Latitude." Journal of Architectural Engineering, ASCE, Special Issue: Emerging Trends of Sustainable Engineering, Design, and Construction, Vol 19, No. 3, pp: 209-216.
- Jason E. Charalambides: "Nicosia: Transformations in Organic Plan and Walled Edge", in Journal of Business and Society, Nicosia, Vol 4, No 2, Fall 1991 pp 145-155.

References:

Available upon request.