Mario C. Cortes

Associate Professor - Tenured

Teaching Area

Foundations Program, Professional Program – ARCH 4075/5775G, ARCH 4076/ 5776G – Building Structures I and II ARCH 2015, ARCH 2016 Architecture II ARCH 3015, ARCH 3016 Architecture III ARCH 4515, ARCH 4516 – Architecture V ARCH 4214 – TS: Europe Studio/Culture Studies ARCH 3046 – Building Assemblies, ARCH 3054 Building Analysis ARCH 4524 – Thesis Documentation ARCH 3514 – TS: Watercolor

Education

Master of Architecture,	Virginia Tech	1995
Bachelor's of Arts in Architecture,	Washington University	1979
(Cum Laude)		
Major: Architecture		

Minor: Civil Engineering – Structures

Teaching and Administrative Experience

Chair, Professional Program of Architecture	2018-2020
Associate Professor – Tenured	2006 to present
Assistant Professor	2001-2006
Instructor, School of Architecture and Design, VPI&SU	1986-2001

Professional Experience

Consulting – Structural Consulting and Design:	1996-Present
William Galloway – Graduate Laboratory Concrete - Room	2009-2010
Kathryn Albright – Blacksburg Farmers Market	2006-2007
Pittman/Thompson – Rammed Earth Design-Build Studio	
Leon Davis – Haybale Residence and Thesis	
Susan LaBrie and Associates: Pheasant Run Unit 202	
Hunter Pittman, Architect: King Building I, II	
Donald Sunshine, Architect: multiple residences	
Keith Hunter, Architect: Pearisburg Residence	
Architectural Designer and Project Manager	1981-1984
Beery, Rio and Associates, Architects	
Architectural Intern, Holle and Graff Architects	1980-1981
Creative Activity, Research and Scholarship	
Procured \$4,000 for awards for 3 rd Year IIBEC –	
(International Institute of Building Enclosure Consultants) Competition.	Spring 2022
	5pmg 2022
Gabriel Prize – National Winner	
Exhibit of Watercolor Architectural Analytiques , Miami, Florida	2006-2007
Western European Architecture Foundation Exhibit. Paris, France.	2006
Cite Internationale de Arts Exhibit of French Theaters watercolors. Paris, France	
Gabriel Prize – National Finalist (among top three candidates)	2005
Gabiler Fize – National Finalist (among top timee candidates)	2005

2006-Present

Presentation of my architectural watercolors and sketches. Boston, MA.

Exhibit: Second Year 2004 Competition – "A place to work and display for three artisans." Trade Street, Winston-Salem, NC.	Fall 2004
Presented and published Bridge Between Structures and Design at the ACSA Central Conference 2003 - WEAVING – Constructing and construing the material world and tapestry.	2003
Exhibit: Student-Faculty Watercolor Tonal Montages. Hollins University, Roanoke, VA. Exhibit of watercolor montages	Fall 2004
Organized an exhibit of watercolor montages of enlarged photographs of Erwin Blumenfeld and Samuel Chamberlain.	Fall 2004
Teaching Excellence Awards Virginia Tech College of Architecture and Urban Studies	
Excellence in Teaching Lecture & Seminar	2008
Virginia Tech College of Architecture and Urban Studies	
For Studio Teaching Excellence Award	2007
Virginia Tech College of Architecture and Urban Studies Creative Achievement Award	2006
Panhellenic Council of VA Tech	2008
Merit pay increases	1993-2015
CAUS Faculty Small Project Research Grant	1997
Nominee for Teaching Excellence Award	1993
Tau Sigma Delta National Honor Society	1992
Phi Kappa Phi Honor Society	1984
Graduate Fellowship	1986-1988
Cum Laude, Dean's List	1975-1979
Washington University	1975-1979
Chancellor's Honorary Scholarship	1975-1979
University Service	
Honorific Committee Member – College Level	2011-2013
Honorific Committee Member – College Level	2003-2009
Honorific Committee Member – College Level	2003-2005
Honorific Committee Member – School Level	2004-2006
Undergraduate Honor System Representative	1999-Present
Search Committees:	
Professional Program, Structures	1996-1997
Graduate Program, Building Technology	1996-1997
Serve in all Faculty Meetings in undergraduate program	

Research and Scholarship

Presented and published Bridge Between Structures and Design

at the ACSA Central Conference 2003 - WEAVING – Constructing and construing the material world and tapestry.

Structural Advisor of the Rammed Earth Design-Build Studio			
(Pittman/Thompson).			
Developed structural modules for:			
Roof rafter design and analysis.			
Micro Lam rafter design and analysis.			
Flitch Beam design and analysis.			
Roof truss design and analysis.			
Shear wall analysis due to wind forces.			
Frame analysis and design of interior columns.			
Pipe column design.			
Roof stability design.			
Perimeter Spread Footing.			
Square Spread Footing design.	2002 2015		
Verified design of hip rafter and compression ring connection.	2003-2015		
Structural Designer of Sunshine Residence			
Developed structural modules for:			
Roof rafter design and analysis.			
Ridge Beam. 2"x 4" Stud Wall Construction.			
Garage Hip Roof Rafter and Tension Cable.			
Floor Beams.			
Floor Joists.			
Micro Lams at Door Entrance.			
Micro Lam Spandrel.			
Perimeter Footing.			
Column Square Spread Footings.			
Rafter Tensile Cables.			
Ridge Beam.			
Transfer Girder.			
Interior Posts for Transfer Girder.			
Wind Uplift Force Analysis.	2004-2015		
Structural Designer of Leon Davis' Haybale Residence and Thesis			
Spandrel Beam Size.			
Tensile Cable Design.			
Compression Panel Design.			
Beam Bearing Capacity.	2005		
Virginia Tech Faculty Development Program			
Enrolled in Visual Basic Programming Course	1997		
Computer Applications and Tools	1994-Present		
Web-Based Teaching Tools	1997-Present		
Distance Learning Applications	1998-Present		
International Travel			
Co-Leader, CAUS Study Abroad, Italy, France, and Spain	2004, 2008-2018		
Co-Leader, CAUS Study Abroad, Italy	1997		
Dublic Somico			
Public Service			
SWVSA Youth Soccer: Coach	1995-1999		
YMCA Open University Instructor Blacksburg Parks and Recreation Youth Baseball	1995-1998 1997-1998		
טומנאסטעוצ רמואס מווע הפנופמנוטוו זטענוו סמכצטמוו	1997-1998		