

ERIK ANDERS NELSON, PE, SE

Structures Workshop, Inc. Owner / Structural Engineer
18 Imperial Place - Courtyard, Providence, RI 02903
401.383.8988 ean@structuresworkshop.com

LICENCES

PE License in NY, CT, MA, NH, ME, DC, RI and TX
SE License in IL

PRACTICE

05/08-Now Structures Workshop, Inc. / Providence RI
10/05-04/08 Odeh Engineering / North Providence RI
10/03-10/05 Guy Nordenson and Associates / New York NY
10/02-10/03 McLaren Engineering / West Nyack NY
06/99-10/02 Thornton-Tomasetti Engineers / New York NY
01/98-08/98 HDR Engineering, Inc. / Pittsburgh PA
05/96-09/96 BCI Contractors / Baltimore MD

EDUCATION

1999 Massachusetts Institute of Technology / MEng Structural Engineering
1997 Washington University in St Louis / BS Civil Engineering
1996 Lake Forest College, IL / BA Physics and Math

ORGANIZATIONS AND LICENSES

2008-Now Vice President / SEARI: Structural Engineers Association of Rhode Island
2010-Now Board of Advisors /RIMOSA / Rhode Island Museum of Science and Art
2010-Now Board of Directors / BRACE: Building Research + Architecture + Community Exchange
2012-Now Committee Member / ASCE -SEI Engineering Philosophy
2012-Now Committee Member / ASCE -7 Main Committee Associate Voting Member
Member AEER-TF-7 / Architects and Engineers Emergency Response Task Force 7 of USAR
Member SFNE / Steel Fabricators of New England
Member AIA / American Institute of Architects
Member ASCE / American Society of Civil Engineers
Member AISC / American Institute of Steel Construction
Member BASE / Boston Association of Structural Engineers

TEACHING

2008-Now RISD: Structural Analysis, Concrete and Masonry Design, High Performance Structures, Building Information Modeling – Revit, Statics and Strength of Materials, Steel Design, Wood Design
2011-2014 MIT: Design of Steel Structures
2009-2010 UMASS – Dartmouth: Design and Analysis of Steel Structures

INVITED LECTURES

06/2015	WPI Steel Conference "Welds: How to Spot Problems and Improve Weld Details"
05/2014	SEARI Structural Engineers of Rhode Islander Presenter "Design for torsion ACI 318-11"
04/2012	Structures Congress in Chicago "Engineering Philosophy - What makes us engineers?"
01/2012	SEARI Structural Engineers of Rhode Islander Presenter "Weld Design"
04/2011	Structures Congress in Las Vegas "Simple Shear Connections – Not So Simple"
05/2010	SEARI Structural Engineers of Rhode Islander Presenter "Seismic Design - ELFP"
04/2010	SEAM Structural Engineers of Maine Presenter "For the Green to the Black"
03/2010	SEAMass Structural Engineers of Mass Presenter "AISC 13th Edition Connections"
10/2009	ASCE National Convention Presenter "Philosophy and Civil Engineering"
11/2008	MIT Guest Lecture Civil Department "Form Finding"
02/2007	Northeastern Invited Lecturer in World Architecture Class
04/2006	Smith College Invited Critic Architecture Department
08/2005	Brown University (ENG - 138) Structural Design, Guest Lecturer
04/2002	ACE High School Program / Design Project and Seminars

SELECTED PROJECTS

Connections	Steel Connection Design of over 300 Buildings ranging from 200 tons to 3000 tons
Box Office	Design of an Office Building utilizing 32 Used Shipping Containers
Linked Hybrid	Nine (9) 21-story concrete residential towers with sky bridges
Wire Works	Design of a 2-Story Steel Museum within an existing Masonry Building
Tycom	Senior Engineer of a 15-story, 288,000 SF flat plate concrete Telecom Hotel
Site 26	Senior Engineer of a design for a 45-story steel braced core building
Midtown Ferry	Project manager of the design of a Ferry Terminal
Home	Design of a 6500sf home with wood, concrete and masonry.
PNC Park	Construction Administration of a \$178-million, 40,000-seat stadium
Cirque Ka	Senior Structural Engineer of a machine stage to move, twist, lift, and rotate.
Tropicana	Project Manager to analyze the partial collapse of a Garage

For more projects and information see www.structuresworkshop.com

PUBLICATIONS

07/2014	"Philosophy of Engineering: What It Is..." in the Journal of Professional Issues in Engineering Education and Practice
04/2013	"Socrates, How is Knowledge Attained?" April 2013 Structure Magazine
01/2013	"Economical Welds" Jan 2013 Modern Steel Construction Magazine
04/2012	"Manifesto for Individual Growth" 4-Part/4-Month 2012 Structure Magazine
02/2012	"What is Structural Engineering, exactly?" March 2012 Structure Magazine
04/2011	"Simple Shear Connections - Not So Simple" April 2011 Structures Congress
03/2011	"Making Connections - The Linked Hybrid" March 2011 Civil Engineering Magazine
12/2008	"BIM and the Structural Community" December 2008 Structure Magazine
03/2008	"Twilight of the Idols" March 2008 Modern Steel Construction Magazine
03/2008	"The Structure that Sings" March 2008 Structure Magazine
10/2007	"Infinite Load Path?" October 2007 Structure Magazine
05/2007	"Participation Mystique" May 2007 Structure Magazine
01/2007	"Architects are from Plato" January 2007 Structure Magazine
07/2006	"Curious Deflection" July 2006 Structure Magazine Featured Article
03/2003	"World Trade Center Building Damage Survey" 2003 (GNA, TT, SEONY)