

PAUL ZAMROWSKI ASSOCIATES, INC.
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CURRICULUM VITAE
SINAN S. JAWAD, PE

EXPERIENCE

- 1990 - Consulting Civil/Structural Engineer and Associate of Paul Zamrowski Associates, Inc. Engineering investigation and analysis of residential, industrial, and commercial buildings to determine cause and extent of damage, recommend repairs, and determine compliance with codes. Analyses of wind damage, construction failures, collapses, etc. Investigated over 1000 Home Owner's Warranty claims for structural defects. Qualified as an expert witness in Pennsylvania, New Jersey, Delaware, and Maryland.
- 5/77 - 12/89 **Allen-Sherman-Hoff Company** - Engineers and Manufacturers of equipment, structures, and systems for fossil fuel power plants (utility and industrial).
- 1988-1989 Chief Engineer - Annual budget of over 5 million. Responsible for multiple discipline engineering staff of over 40 direct personnel and up to 20 temporary employees.
- 1982-1988 Chief Structural Engineer - Supervised the 25 engineers and designers, performed structural design, and performed all necessary administrative work relative to the group.
- 1977-1982 Senior Engineer and Supervisor of the structural engineers. Supervised the work of 15 engineers, performed structural design and project activities on multiple projects.
- 1976 - 1977 **United Engineers and Constructors** - A/E firm designing power, industrial and chemical plants. I was a structural engineer with responsibility for design analysis, checking, and supervision of designers' work. 50% concrete and 50% steel design.
- 1972 - 1976 **TEI Consulting Engineers, Inc.** - Engineering Consulting firm designing highways, bridges, and commercial building. I was a senior structural engineer responsible for the design, analysis, and checking of highway and railroad bridges and supervision of other engineers and designers. 50% concrete and 50% steel design.
- 1972 **Jenkins, Merchant and Nankville** - Engineering Consulting firm designing highways, bridges, and sewage treatment plants. I was a structural engineer responsible for design, analysis and checking of highway and railroad bridges.
- 1968 - 1970 **Iraq Department of Transportation** - I held the position of assistant resident engineer on the construction of a multi-box girder, post tensioned concrete bridge over the Diyala River. My main task was to supervise the stressing operation and control the concrete technology.
- 1966 - 1968 **Illinois Department of Transportation** - I held the position of structural engineer designing concrete and steel bridges.

PAUL ZAMROWSKI ASSOCIATES, INC.

Education

1962 - 1966 BSCE University of Illinois, Urbana, IL
1971 - 1972 MS (Structural Engineering)
Rensselaer Polytechnic Institute, Troy, NY

Registrations - Professional Engineer

Pennsylvania, New Jersey, Delaware, Maryland

Memberships

American Society of Civil Engineers (ASCE)
National Society of Professional Engineers (NSPE)
Pennsylvania Building Officials Conference (PENN-BOC)

Instructor (Seminars)

1998 Residential Structural Design
New Jersey Department of Community Affairs and Rutgers University

PAUL ZAMROWSKI ASSOCIATES, INC.

SEMINARS ATTENDED BY SINAN S. JAWAD

1984 Steel Design - Current Practice Lecture Series (AISC)
1984 Design of Steel Tanks (University of Wisconsin)
1989 Roofing Seminar - Construction Specifications Institute (CSI)
1989 HOW Corporation Engineer Training Seminar
1989 Trus Joist Corporation Seminar
1990 Roof Deck Diaphragm Seminar - Steel Deck Institute (SDI)
1992 Lumber and Building Codes Seminar (PENN-BOC)
1994 Wood Construction Seminar
1995 Engineering Wood Products (PENN-BOC)
1995 Simpson Strong Tie Products & Code Requirements (PENN-BOC)
1995 Commercial Roof Problem Analysis and Roofing Options (NRCA)
1995 Residential Steel Framing (PENN-BOC)
1996 Masonry Design Seminar - Masonry Contractors Assoc. of Central PA
1996 BOCA National Building Code Update (PENN-BOC)
1997 Wood Frame Building Design (Penn-Boc)
1998 Exterior Insulation Finish Systems (EIFS) BOCA/PENN-BOC
2000 Overview of the International Building Code BOCA/PENN-BOC
2002 Special Inspections and the 2000 International Building Code (ICBO)
2002 Hilti Fire Protection Program (PENN-BOC)
2003 Concrete Inspection (ACI 318, IBC Chapter 19) ICBO-PENN-BOC
2004 Building Codes and Wood Design (Wood Solutions Fair)
2004 Engineered Wood Products (Wood Solutions Fair)
2004 Designing with the 2001 National Design Spec. (Wood Solutions Fair)
2004 New Treatment for Durable Wood Construction (Wood Solutions Fair)
2004 Wood Connections (Wood Solutions Fair)
2005 Building Envelope Construction & Restoration (PA Prof. Engineers)
2006 Structural Welding - Steel Structures Technology Center
2008 Segmental Retaining Wall - Design & Construction (PCMA)
2009 Wall Bracing by Prescriptive Code – i Level Construction Services
2009 Design Consideration for Residential Tall Walls – i Level Construction Services
2010 Improving Energy Performance In The Building Envelope – PA Professional Eng.
2010 How To Design A Masonry Structure In 20 Minutes – (PCMA)
2010 Condition Evaluation of Existing Structures (ASCE)
2010 Renovation of Residential Framing (ASCE)
2010 Underpinning and Strengthening of Foundations (ASCE)
2010 Failures of Wood Framed Structures (ASCE)
2010 Investigation & Repair of Fire Damaged Framing (ASCE)
2010 Renovation of Wood Trusses (ASCE)
2010 Roofing Systems: A Primer For Engineers (ASCE)
2010 Structural Design of Residential Buildings (ASCE)
2010 ASCE 7-10 Snow Load Provisions (ASCE)
2010 New Jersey DCA B524-IRC/IBC Stucco Installation
2012 Precast/Prestressed Concrete Innovations & Answers (High Concrete Group)
2012 Evaluating Damage & Repairing Wood Trusses (ASCE)
2012 Energy-Efficient Building Envelope Design & Construction (Half Moon Education)
2013 Complying With The Pennsylvania Energy Conservation Code (Half Moon Ed.)
2014 Caisson Design & Load Testing (SEAoP)
2014 Voided-Slab Construction (SEAoP)
2014 Structuring New Access to the Statue of Liberty (SEAoP)
2014 Self-Centering Low-Damage Seismic Structural Systems (SEAoP)
2014 The Role of the Structural Engineer in Urban Search and Rescue (SEAoP)
2014 Beyond Drawings: 3D Model Submittal Review Process (SEAoP)
2014 Structural Forensic Engineering (Half Moon Education)
2014 Ethical Engineering: Concepts and Challenges (NSE)

PAUL ZAMROWSKI ASSOCIATES, INC.

2014	Engineers Duty to Report (NSPE)
2015	PCCA Annual Symposium (PCCA)
2015	Segmental Retaining Walls (PSPE)
2015	Residential Slab Insulation (PSPE)
2015	Next Generation of Concrete Masonry (PSPE)
2016	Hurricane Damage: Wind vs. Water (ASCE)
2016	Structural Issues for Structural Engineers (DVASE)
2017	Technical Presentations (SEAoP)
2017	Engineering Investigations of Hurricane Damage (ASCE)
2018	Shallow Foundation Design, Construction and Repair (HalfMoon Education, Inc.)
2018	Practical Ethics for Engineers
2018	Repairs of Masonry Buildings (International Masonry Institute)
2018	International Building Code Update (Building & Fire Code Academy)
2019	International Existing Building Code (HalfMoon Education, Inc.)
2021	Structural Forensic Engineering (HalfMoon Education, Inc.)
2021	Handling Ethical Issues Associated with Defects and Failures (HalfMoon Education, Inc.)
2021	How to Design and Construct Mechanically Stabilized Earth Walls (MSE) (HalfMoon Educations, Inc.)
2021	Why Sustainability (Delaware Association of Professional Engineers)
2021	How to Identify and Mitigate Moisture Intrusion in Structures (Halfmoon Education, Inc.)
2021	Ethics for Engineers as Expert Witnesses (Titan)
2021	Condition Evaluation of Existing Structures Masonry and Wood (ASCE)
2021	Learning from Failures of Wood Framed Structural (ASCE)