

## John W. Koshak

## Curriculum Vitae

1016 W. Poplar Ave  
Suite 106-301  
Collierville, TN 38017  
Born in Easton, MD in 1959, US citizen

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Married, four children

### HISTORY

#### **2008 to Present**    **Elevator Consultant**

#### **Elevator Safety Solutions, Inc.**

Consultant in all areas of vertical transportation conveyances within the scopes of ASME A17.1/CSA B44 Safety Code for Elevators, Escalators, Moving Walks, and Dumbwaiters, ASME A17.3 Safety Code for Existing Elevators and Escalators, ASME A18.1, Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A17.7/CSA B44.7 Performance Based Safety Code, ASME QEI-1 as a Certified Elevator Inspector, and International Standards Organization, Technical Committee 178. Professional consulting services include:

- Accident investigation and expert witness services
- Design compliance review and advice;
- New technology AECO consultation;
- Specification writing for new and modernization projects;
- Maintenance and performance evaluation; and
- Due diligence evaluation

#### **2004 to 2008**    **Director of Codes and Standards, North America**

#### **ThyssenKrupp Elevator**

Duties included coordinating worldwide code efforts, Risk Analysis facilitation, and code compliance management in all segments of the company. Participated in compliance review for several products and originated and maintained a Codes and Standards Management System to provide companywide distribution of code services.

#### **2001 to 2004**    **Research Engineer**

#### **ThyssenKrupp Elevator**

Engaged to design elevator systems with ThyssenKrupp Research, Innovation and Design (TRIaD). Our charge was to design a machineroomless elevator system and other innovative systems and sub-systems.

#### **2001**    **Elevator Consultant**

#### **Vertex Corporation**

Consulted in all areas of vertical transportation conveyances within the scope of ASME A17 Safety Code for Elevators and Escalators.

#### **1997 to 2001**    **Vice President of Technical Support**

#### **Adams Elevator Equipment Company**

Responsible for the support of all elevator products manufactured or distributed by Adams. Wrote several manuals for customers to use and install various products. Determined origin of product inconsistencies before and after sale; either in manufacture, application or installation. Presented new products to all industry groups, developed A17 Code rules later adopted for various products. Developed new products and provided market research for various products.

#### **1996 to Present**    **Elevator Consultant**

#### **Elevator Safety Solutions, Inc**

Aided Adams start-up in the manufacturing and distribution of the *LifeJacket*<sup>™</sup>, the hydraulic elevator safety device, which prevents the catastrophic falling of a hydraulic elevator. This device was of my design. Consulted in all areas of vertical transportation conveyances within the scope of ASME A17 Safety Code for Elevators and Escalators.

#### **1990 to 1996**    **Elevator Adjuster and Serviceman**

#### **Amtech Elevator Services**

Responsible for adjusting ride quality of elevators, code compliance, testing dispatching systems, and troubleshooting difficult problems. The work included troubleshooting, adjusting direct and indirect hydraulic elevators, geared and gearless traction elevators, escalators, moving walks, wheelchair lifts, and dumbwaiters.

#### **1988 to 1990**    **Elevator Adjuster and Superintendent**

#### **Dover Elevator Corporation**

Primary responsibilities included adjusting geared and gearless traction computer controlled elevators until accepting a supervisor position where responsibilities included managing a crew of 20 service mechanics, 4 helpers, 4 repair teams and a base of 1200 units under my direct responsibility.

**1987 to 1988 Elevator Adjuster**

**Montgomery Elevator Corporation**

Attended factory training for SCG 6010 and Miprom controls in Moline, IL, was assigned to readjust many of the non-Montgomery units on service and then assigned to readjust geared and gearless traction solid state SCR controlled elevators and solid state hydraulic elevators.

**1985 to 1987 Elevator Adjuster**

**Dover Elevator Corporation**

Assigned to adjust new installations including hydraulic and traction elevators, relay, and computer controllers, variable voltage elevator systems, such as T-3, Composite, WCR, SS5T, and Solid State controls. Adjusted the first Dover DMC, solid state computer hydraulic elevator, in Northern California in a pilot program.

**1980 to 1985 IUEC Elevator Helper and Mechanic**

**Westinghouse Elevator Company**

Started as a helper in 1980, promoted to temporary mechanic in 1981. Performed construction and service work, promoted to elevator adjuster in 1983. After successfully passing the necessary education, sat for and passed the IUEC mechanics examination in 1984. When not adjusting new elevators, was assigned to special orders to install wiring and components necessary to comply with California Fireman's Recall and Earthquake Code Rules. Installed several Emergency Power PLC controllers to provide sequencing and dispatching control when on Emergency Power. Installed several Security Systems in several building elevator systems.

**1982 to 1991 Instructor**

**National Elevator Industry Education Program**

National Elevator Industry Education Program Instructor (NEIEP) teaching all course offerings to elevator helpers and mechanics for their advancement in the trade. Designed courses to educate constructors on computer control. Achieved the highest possible Level (Level 3) status as a NEIEP Instructor.

**1977 to 1980 Electrician**

**EC Electric Company**

Residential and industrial electrician's helper and electrician. In 1979 my first project as the lead electrician was for the City of El Cerrito, CA for aluminum, plastic and paper recycling plant.

## **EDUCATION AND TRAINING**

Completed several business courses at the University of Phoenix, 2004-2006

Passed NAESAI QEI annual recertification tests since 2003

Passed Qualification of Elevator Inspector (QEI) class in 2002

Completed several courses at Alameda Community College, 1991-1994

Completed accounting courses at John F. Kennedy University, 1989

Completed all modules offered by the National Elevator Industry Educational Program, 1987

Completed all courses offered by the National Elevator Industry Educational Program for Instructors, 1985-1991

Completed factory certified classes on the SCC 6010 and Miprom series of elevator controls, 1987

Passed the Federal Aviation Regulations Exam, Private Pilot Certificate, Single Engine Land, 1985

Graduated from Long Beach High School, Long Beach, MS. 1977

## **PRESENTATIONS AND LECTURES**

**State of Illinois Elevator Instructor** Licensed by the Illinois State Fire Marshall to provide Certified Code Instruction to Licensed Contractors and Mechanics in the State of Illinois.

**Elevator World, Virtual Elevator Expo (VEE) 2011**, Presented the Maintenance Control Program on the

international stage as a participant in the second annual Virtual Elevator Expo.

**55th Annual Institute for Building Officials** in St. Paul, MN in 2011. Presented to Authorities Having Jurisdiction of Minnesota and Wisconsin on the Maintenance Control Program required by A17.1, Safety Code for Elevators and Escalators.

**National Association of Elevator Safety Authorities**, (NAESA), Presented at Annual Forums and several Regional Workshops on various topics since 1997. Topics included hydraulic fluid failure protection, door restriction devices, and escalator safety products, ADA requirements for elevators, A17.1 code changes, risk assessment, new technology, aramid suspension means, machineroomless systems, reliable electronic control systems, Wind Turbine Elevator compliance and explanations of the Maintenance Control Program.

**International Association of Elevator Consultants**, (IAEC) formally known as **National Association of Vertical Transportation Professionals**, (NAVTP), Since 1997 presented at annual Forums on hydraulic fluid failure protection systems, escalator safety products, Suspension systems including aramid fiber rope, participated in roundtable discussion of machineroomless elevators, suspension means code changes and explanations of the Maintenance Control Program.

**National Association of Elevator Contractors**, (NAEC), Regional Educational Series, since 1997, presented several courses on hydraulic fluid failure protection. In 1998 presented a course on code promulgation, in 2001, discussion panel member on Serial Communication in the elevator industry, its reliability and application. In 2003 and 2004, discussion panel member on Proprietary Equipment. In 2005, panel member discussing the Maintenance Control Program changes in the code and presented explanations of the Maintenance Control Program. Chairman of the Spring Conference Educational Committee 2005-2007.

**Regional industry groups** presentations since 1997 on Safety, Code, and Technical matters for: Elevator Association of Florida, US State Agencies and Canadian Provincial Agencies, Southern and Northern California Elevator Industry Groups, Mid-Atlantic Association of Elevator Contractors, Canadian Elevator Contractors Association, US Government General Services Administration, US State Department, Washington Association of Elevator Contractors, Elevator Association of Minnesota, Chicago Elevator Association, Canadian Standards Association, Elevator Conference of New York, Big 10 and Friends, and Vertical Transportation Conference for Colleges and Universities.

**Elevcon 2000** in Berlin Germany lectured on Acceleration and Stopping of Hydraulic Elevators for the IAEE Congress at the annual convention. Submitted paper titled "Impact Estimations of Falling Hydraulic Elevators".

**Rutgers University**, 1999 and 2000, instructed multiple classes in a Continuing Education series on A17 Code changes for Department of Community Affairs, Division of Codes and Standards, Bureau of Code Services for the State of New Jersey.

**National Elevator Industry Educational Program**, (NEIEP), 1982 to 1991, Instructor, Level 3. In 1987, designed and instructed a computer programming course covering Basic and Assembly Language programming, including building the computer and creating a virtual two-car dispatching system. The purpose of the class was to demonstrate how basic input/output is done using computers.

## PRESENTATION TITLES

### 2012

**Wind Turbine Elevators** Presentation on the status of wind turbine elevator codes and standards.

**Maintenance Control Program** Presentation detailing the Code requirements regarding maintenance on elevating devices.

### 2011

**EESF Orientation** Presentation to provide information on new members of the Board of Regents of the Elevator Escalator Safety Foundation.

**Code Requirements for Constructors** Presentation on the basic requirements of

code that Construction personnel and Maintenance Personnel are required to know.

**Wind Turbine Elevators** Presentation on the status of wind turbine elevator codes and standards.

**Code Requirements for the Maintenance Control Program** Presentation detailing the requirements to assure maintenance is performed on elevating devices.

## 2010

**Inspecting Wind Turbine Elevators** Co-written with a wind turbine industry instructor to provide education for elevator inspections in the unique environments.

**Code requirements of A17.3** A course on the requirements of A17.3 for Continuing Education Units (CEU) to mechanics requiring Continuing Education for their licensure.

**Wind Turbine Elevator Prescriptive Code Development Presentation** Presentation detailing the status of WTE code and how it was developed

**Understanding the MCP** Presentation explaining the code requirements in the Maintenance Control Program, in A17.1 requirement 8.6.1.2

## 2009

**Code requirements for Wind Tower Elevators** Explanation of these Special Purpose Personnel Elevators in Wind Towers and how ASME has begun the code writing using Hazard Assessment Methodology

**Scoping of Wind Tower Elevators** Explanation of these Special Purpose Personnel Elevator in Wind Towers

## 2008

**TWIN Elevators** The introduction in North America of TWIN elevators (two elevators in one hoistway) and the use of A17.7 in assuring equivalent safety

## 2007

**How does the Suspension Standard Assure Safety** Explanation on reliance of standardization

## 2006

**Ropes constructed of aramid** Explanation on aramid suspension systems

## Performance Based Code Application

Explanation on how to use a performance code

## 2005

**Report on Suspension Means TG, Ad Hoc Committee on MRLs, and New Technology**

Update on the status of code language

**Maintenance Control Program Code**

Explanation of new maintenance requirements

**Performance Based Code** Explanation on the difference between Prescriptive code and Performance codes

**Plunger Gripper Code** Explanation on the new requirements for plunger grippers

## 2004

**Elevator 101** Explanation of elevators for the Public Building Services at the General Services Administration

**Code Update Class for DCA** Update and explanation on the major code changes after 2000

**Suspension Means Task Group Ballot** Update on the Suspension Standard ballot

**EESF Efficacy Study on Saf-T-Rider**

Explanation of the effectiveness of the Saf-T-Rider program design to teach 2<sup>nd</sup> grader rules for elevator and Escalator safe riding for the EESF.

**Inspecting New Technologies** Explanation on how New Technology systems will change how they are inspected

## 2003

**New Technology and Codes in North America**

Update to AHJs on the status of new codes

**Aramid Suspension Systems and New Code**

Update on the Suspension Standard

## 2002

**Aramid Suspension Systems** Explanation on the use of aramid as a material used in suspension systems

## 2001

**Safety Products** Hydraulic elevator pressure loss protection, Escalator brush side of step protection, Door restrictor fall protection and Door closing protections systems

**ADA and the Elevator Industry** Elaborates on specific ADA requirements that apply to elevators

**Machineroomless Designs** Lecture on the design and code direction of machineroomless systems

**2000**

**Elevator Industry Safety and the Code**

General lecture on the use of Safety Devices

and Systems to reduce Injury and Accidents

**1999**

**Fluid Loss – Uncontrolled Movement in**

**Hydraulic Elevators** Elaborates on the effects of fluid and pressure loss.

## PATENTS

**Patent No. 7,261,184**, Elevator System and Triangulated Support Structure for Same, issued August 28, 2007, for a structural design of a machineroomless elevator system.

**Patent No. 6,830,355**, Refractive sheet lighting for an elevator, issued, December 14, 2004, for an elevator cab lighting assembly comprising a refractive sheet mounted on the interior of the elevator cab.

**Patent No. 6,494,298 B1**, High Efficiency Shoes for Jack Arrestor, issued December 17, 2002, for a shoe design that compensates for irregularities in plunger material characteristics such as low tensile strength and for very low micron surface finish.

**Patent No. 6,371,254**, Jack Arrestor, issued April 16, 2002, for a safety device to prevent hydraulic elevators from falling uncontrolled.

**Patent No. 5,900,596** issued May 4, 1999, for a control system to determine uncontrolled descent and trigger a device that will stop the falling elevator.

**Patent No. 5,810,119**, Jack Arrestor, issued September 22, 1998, for a safety device to prevent hydraulic elevators from falling uncontrolled. Now manufactured and sold by Adams Elevator Equipment Company under the trade name of **LifeJacket™**.

## PUBLISHED WORKS

**2012**

Koshak, John W., ***"Wind Turbine Tower Elevators."*** Elevator World, April 2012: 39-43 and May 2012: 136-138

**2010**

Koshak, John W., ***"Safety and Buffer Testing without Weights"***, Elevator World, September 2010 and May 2012: 129-143.

Koshak, John W., ***"Maintenance Control Program."*** Elevator World, May 2010: 101-110

Koshak, John W., ***"Maintenance of New Equipment Designs"***, ISBN 1-886536-92-9, Elevator World Inc., 2010, book.

**2009**

Koshak, John W., ***"Wind Turbines in North America"***, Elevator World, Aug 2009: 74-84

Koshak, John W., ***"Focus on: Codes, Maintenance Accountability."***, Elevator World, Mar 2009: 120-124

**2006**

Koshak, John W., ***The Pool Manager***, ISBN 1-4196-2164-5, LCCN 2005-910574, BookSurge

LLC. 2006, novel.

Koshak, John W., ***Hydraulic Theory and Installation, Course 8, Unit 14., NAEC CET Education Program***, National Association of Elevator Contractors, Conyers, GA., Elevator World, 2006.

**2004**

Koshak, John W. and Donoghue, Edward, ***"Workshop Looks at Emergency Use of Elevators"***, Elevator World, Dec 2004: 101-106

Koshak, John W., ***Construction Wiring and Equipment, Course 7, Unit 13., NAEC CET Education Program***, National Association of Elevator Contractors, Conyers, GA., Elevator World, 2004.

Koshak, John W., ***"Elevator Evacuation in Emergency Situations"***, Workshop on the Use of Elevators in Fires and Other Emergencies. American Society of Mechanical Engineers. New York, NY, 2004.

**2003**

Koshak, John W. et. al., ***"Suspension Means of***

*Aramid*", Elevator World, Sep 2003: 180-189  
**2001**

Koshak, John W., "**Chapter 9.**" Sam and Samantha, the Maintaineers. 2003. George Strakosh. Mobile, AL, Elevator World, 2001, book.

Koshak, John W., "**Falling Hydraulic Elevators in Need of a Safety**", Elevator World, Dec 2001: 101-106

**1996**

Koshak, John W., "**Jack Arrestors.**" Elevator World, Feb 1996: 50-52

## PROFESSIONAL MEMBERSHIPS

### **American Society of Mechanical Engineers**

ASME Society member since 1996  
Member of A17 Standards Committee since 2005  
Chairman of A17 Wind Turbine Elevator Committee since 2012  
Chairman of A17 Project Team for the Wind Turbine Elevators since 2011  
Vice Chairman and Member of A17 Project Team for the Wind Turbine Elevators since 2009  
Member of the following A17 Committees:  
Mechanical Design Committee since 2002  
International Standards Committee since 2002  
New Technology Committee since 2003  
Code Coordination Committee since 2006  
New Technology Conformity Assessment Task Group since 2010  
Rack and Pinion, Special Purpose Personnel Elevator Committee since 2009  
Maintenance Control Program Task Group since 2010  
Mechanic Design Committee Signage Task Group since 2007  
Alternate Member of A17 Hydraulic Committee since 2003  
Secretary and Member of Ascending Car Overspeed/Unintended Car Movement TG, 2005-2011  
Symposium on the Use of Elevators during Emergencies Task Group, 2008-2010  
Secretary and Member of Suspension Means Task Group, 2001-2008  
Use of Elevators by Firefighters Task Group, 2004-2008  
Use of Elevators for Occupant Egress Task Group, 2004-2008

Electronic Door Restrictor Task Group, 2001-2008 and since 2012  
Ad Hoc Committee on Machineromless Elevators, 2001-2007

### **Canadian Standards Association, B44 Committee**

Associate Committee Member since 1997

### **Elevator and Escalator Safety Foundation**

Vice Chairman since 2011  
Regent since 2008  
Trustee since 2005  
Member since 1996

### **International Association of Elevator Consultants**

Member since 2009

### **National Association of Elevator Contractors**

Member of the Education Committee since 2009  
Member of Safety Committee since 2008  
Chairman of the Codes and Standards Committee, 2009-2010  
Conference Education Chairman, 2005-2007

### **International Association of Elevator Engineers**

Member since 2002

### **National Association of Elevator Safety Authorities International**

Member since 1997

### **Airplane Owners and Pilots Association**

Member since 1986

### **International Standards Organization**

Member of Technical Committee 178, Working Groups 4 and 6, 2003-2010

### **National Elevator Industry, Incorporated**

Member of Central Code Committee, 2006-2008, Individual Member since 2010

### **International Union of Elevator Constructors**

Member of IUEC Local 8, 1980-1997

## **LICENSES AND CERTIFICATIONS**

**State of Illinois** - Licensed Elevator Inspector (#IL04144) since 2010

**National Association of Elevator Safety Authorities International** - Certified Elevator Inspector (C2346) since 2002

**California State Licensing Board** - Licensed Elevator Contractor, State of California, C-11-651372, 1992-1998

**Federal Aviation Administration** - Private Pilot, Single Engine Land, certified in 1984