



**EDWARD J. TUCZAK, M.S.E., P.E.**  
**SENIOR CONSULTANT**

[ejtucak@engsys.com](mailto:ejtucak@engsys.com)

Mr. Edward Tuczak is a Senior Consultant for ESI, with over 20 years of experience in the planning, design, construction, maintenance, and investigation of various buildings, structures, and facilities. His professional practice areas include construction defects, structural failures, premises liability, construction accidents, and water intrusions through the building envelope. Mr. Tuczak also conducts property damage assessments in relation to windstorm events, floods, fires, vehicle impacts, foundation movement/distress, and water releases from plumbing, HVAC, and fire protection systems. His client services include expert witness testimony, damage evaluation and causation reports, construction repair services, and fall protection consultation.

Prior to working in the forensic field, Mr. Tuczak performed structural, architectural, and site design for numerous building and structures. This included the assessment, repair, and reinforcement of existing structures for new occupancy and usage demands required by facility owners. Mr. Tuczak has also designed temporary and permanent fall protection systems for large industrial and power generation facilities.

**Areas of Specialization**

- Structural Systems & Foundations
- Construction Safety & OSHA Compliance
- Water & Moisture Damage
- Code Compliance & ADA Accessibility
- Building Envelope & Roofing
- Exterior Site Features & Utilities
- Crane Rigging & Fall Protection
- Damage Evaluation & Repair Design

**Education**

Graduate Certificate Occupational Safety & Health, Columbia Southern University, Orange Beach, AL, 2017

M.B.A., Management, Cleary University, Ann Arbor, MI, 2006

Certificate Facilities Management Administration, Washtenaw Community College, Ann Arbor, MI, 2004

M.S.E., Civil Engineering, University of Michigan, Ann Arbor, MI, 1994

B.S., Architecture, University of Michigan, Ann Arbor, MI, 1992

**Licensed Professional Engineer (P.E.)**

- State of Illinois ..... 062-060661
- State of Indiana ..... PE10910465
- State of Michigan ..... 6201045603
- State of Ohio ..... 71674

*July 2018*



## **Professional Affiliations/Honors**

Engineering Society of Detroit (ESD), Member  
Structural Engineering Association of Michigan (SEAMI), Member  
American Society of Safety Engineers (ASSE), Member  
RCI, Member

## **Professional Activities**

Committee Member, ANSI/ASSE A10-Subgroup A10.37 Debris Net Systems Used During Construction and Demolition Operations, 2017-2018

Committee Member, ANSI/ASSE A10- Subgroup A10.6 Safety & Health Program Requirements for Demolition Operations, 2014-2016

Member, Construction Association of Michigan Safety Committee, 2014-Present  
Committee Member

ASSE 'Wordless Safety Manual', 2013-2015

Judge, Future Cities Competition, Engineering Society of Detroit, 2012

Committee Member, MIOSHA Construction Safety Standards Commission, Advisory Committee, Part 10 - Lifting and Digging Equipment, 2009-2010

Board Member, Geddes Lake Cooperative Homes, Ann Arbor, MI 2000-2001

Chair, Capital Improvements Committee, Geddes Lake Cooperative Homes, Ann Arbor, MI 1998-1999

## **Positions Held**

### **Engineering Systems Inc., Ann Arbor, Michigan**

Senior Consultant, 2010 to Present

### **Packer Engineering, Ann Arbor, Michigan**

Director, 2008 - 2010  
Senior Staff Engineer, 2004 – 2008

### **Cummins & Barnard, Inc., Ann Arbor, Michigan**

Structural/Architectural/Civil Engineer, 2001 – 2004

### **Ghafari Associates, Inc., Dearborn, Michigan**

Structural Engineer, 1997 – 2001

### **Smith, Hinchman & Grylls, Detroit, Michigan**

Graduate Engineer 1995 – 1997



**Indianapolis Airport Authority, Indianapolis, Indiana**

Construction Management Intern, 1993-1994

**City of Ann Arbor Engineering Department, Ann Arbor, MI**

Engineering Intern, 1991 - 1992

**Continued Education**

Architectural Sheet Metal Flashing Design, (RCI, 2018)

Dropped Objects – The Other Fall Protection, (ASSE, 2016)

Facilities Management, Forensic Structural Inspections, Geotechnical Exploration, Asbestos and Lead Paint, Subsurface Utilities, (PDH Engineer, 2016)

HVAC Systems, (PDH online, 2016)

MIOSHA Temporary Worker Initiative Symposium, June 8, 2016

Construction Safety Symposium (American Society of Safety Engineers, 2015)

Excavation Safety (MIOSHA, 2015)

Job Hazard Analysis (MIOSHA, 2015)

Construction Safety Leadership Conference (Construction Association of Michigan, 2014)

Ladder Safety Training (American Ladder Institute, 2014)

Wood-Destroying Organism Inspection (International Association of Certified Home Inspectors, 2014)

Asbestos and Lead Awareness (MIOSHA, 2014)

Construction Safety Leadership Conference (Construction Association of Michigan, 2013)

Building Envelope Investigations: Standards & Methodology for Investigating Roofing, Waterproofing & Exterior Walls in Residential & Commercial Buildings (The Building Envelope Institute, 2013)

Construction Safety Leadership Conference (Construction Association of Michigan, 2012)

Scaffold Competent Person Hands-on, and Design/Loading Classes (Scaffold Training Institute, 2012)

C3 Contractor's Safety and Health Program (Clicksafety, 2012)

Fire Protection Engineering, Coatings and Paints (PDHDirect, 2012)

ADA Basics (Syracuse University, 2011)

Concrete Evaluation and Repair, Window Installation, Roof Leak Detection, Asphalt Shingles, Flexible Roofing Edge Design (RedVector, 2011)

Segmental Retaining Wall Design (PDHEngineer, 2010)

Construction Safety Symposium (American Society of Safety Engineers, 2010)

Wind Loads for Buildings and Structures (American Society of Civil Engineers, 2009)

Fall protection Competent Person course (MIOSHA, 2009)

Masonry Day (International Masonry Institute, 2008)

Masonry Design and Construction (University of Wisconsin, 2008)

30-Hour Outreach Trainer Course - Construction Safety (OSHA, 2007)



30-hour Construction Safety (OSHA, 2007)  
General Construction Safety, Residential Fall Protection (MIOSHA, 2007)  
Water and Moisture in Buildings-Basic and Advanced (University of Illinois, 2006)  
Water Entry Prevention and Moisture Control in Buildings (University of Wisconsin, 2005)  
Scaffolds and Swing Stages (OSHA, 2005)  
Engineered Wood Products (American Plywood Association, 2005)  
Certificate in Project Management (Washtenaw Community College, 2004)  
General Roofing Knowledge (Tremco Corp, 2004)  
Reinforced Concrete Design (Concrete Reinforcement Steel Institute, 2003)  
Design of Blast-Resistant Buildings (American Society of Civil Engineers, 2003)  
Curtain Wall Systems (American Society of Civil Engineers, 2003)  
Design of Industrial Buildings (Education Programs Innovations Center, 2002)  
Foundation Design (University of Wisconsin, 2001)  
Masonry Codes (The Masonry Society, 2000)  
Various Steel Design Seminars (American Institute of Steel Construction, 1995-1999)

## **Publications/Presentations**

"How to Involve an Expert in a Case from Start to Finish," **Tuczak, E. J.**, Mink, R. A., & Bajzek, T. J. (2017). DTCI Summer Combined Committee CLE Event, Tinker House, Indianapolis, Indiana, August 17, 2017.

"Who's in Control and What's at Stake?" Jane, M.T. & **Tuczak, E. J.** (2017). Associated General Contractors of Michigan, Livonia, MI, May 17, 2017.

"Material Handling & Storage," **Tuczak, E. J.** & Lindros, C. (2016). CAM Safety Leadership Conference, Livonia, MI, December 7, 2016.

"Human Factors & Premise Liability," Auflick, J.L., and **Tuczak, E.J.** (2016). Michigan Defense Trial Counsel, Live Classroom and Live Webcast, Ann Arbor, MI, June 9, 2016.

"Challenges in Demolition of Existing Buildings," Lindros, C., and **Tuczak, E.J.** (2015). Construction Association of Michigan Safety Leadership Conference, Livonia, MI, September 9, 2015.

"When Old Buildings Violate New Codes," **Tuczak, E. J.** (2015). Toledo Insurance Association, Toledo, OH. February 12, 2015.

"When Old Buildings Violate New Codes," **Tuczak, E. J.** (2015). Fort Wayne Insurance Adjusters Association, Fort Wayne, IN, February 5, 2015.

"Utilizing the Forensic Engineer," Kaczkowski, R. T., & **Tuczak, E. J.** (2008). Defense Research Institute Construction Law Seminar," Las Vegas, NV.

"Math and Structural Engineering," **Tuczak, E. J.** (1996). Invited guest lecturer, Presentation, Oakland Community College, Royal Oak, MI.