



### Contact

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### Professional Licensure

Professional Engineers  
Ontario, Consulting Engineer  
Designation  
1997 - Present

Association of Professional  
Engineers & Geoscientists of  
Alberta, APEGA  
2021 - Present

### Academic Background

Graduate Diploma-  
Rehabilitation of Civil  
Engineering Structures,  
McMaster University,  
Hamilton, Ontario  
2006

Qualified Designer under the  
Ontario Building Code  
(Building Structural), Ministry  
of Municipal Affairs and  
Housing  
2006

Engineered Masonry Design  
Course Graduate, McMaster &  
Ontario Masonry Contractors'  
Association  
1999

Diplomirani Inzenjer- Master  
in Civil Engineering equivalent,  
University of Belgrade,  
Belgrade, Serbia  
1988

## Sasa Dzekic, M.Eng., P.Eng.

Practice Lead, Civil/Structural

Mr. Sasa Dzekic, M.Eng., P.Eng., is a Practice Lead for the Civil/Structural Group. He is a designated consulting engineer with over 30 years of professional experience in structural engineering involving a wide range of building projects. He specializes in investigation and assessment of failures of buildings and structural systems, and/or their components, and evaluation of structural damage. Mr. Dzekic has conducted structural forensic investigation and assessment, preparation of reports, and expert testimony when required. He has performed planning and on-site advice with respect to unsafe building conditions and demolition, including temporary measures for structural securing of the buildings. He has conducted structural analysis and design of concrete, steel, wood and masonry structures, review of drawings for building permit purposes, and field review during construction.

### Specialized Professional Competencies

#### Structural Evaluations

- Commercial, residential, industrial, institutional, farm buildings, and designated structures
- Structural failure of buildings and structural systems, and/or their components
- Structural damage due to fire, explosion, weather events (wind, snow, flood), impact, vibration, water leakage
- Material problems
- Building code evaluation
- Temporary measures for structural securing of unsafe structures
- Demolition plan preparation, general review of demolition
- Scope of reconstruction, field review during construction

#### Construction Defects Evaluation

#### Building Envelope Evaluations

#### General Civil Evaluations

- Foundation and retaining wall failures
- Fills and earth movement
- Pools and other buried structures
- Drainage and flooding

### Employment Background

#### Haag Canada Inc., Toronto, Ontario

#### *Practice Lead, Civil/Structural*

2020 - Present

Responsible for conducting structural investigations on single and multi-faceted forensic engineering matters. Investigations and assessments performed for the insurance and legal industries, and other consulting companies.



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Practice Lead, Civil/Structural

**JNE Consulting Ltd., Hamilton, Ontario**

***Discipline Manager – Forensic / Senior Structural Engineer***

2012 to 2020

Coordinated efforts of an engineering team in investigation of structural failures, and evaluation of buildings, including preparation of reports, and preparation of drawings for the purpose of assessing the cost of the required structural reconstruction, and for the building permit purposes. General review during construction, communication with contractors, homeowners, architects, engineers and other building professionals, and preparation of reports.

**Southward Consultants Limited, Burlington, Ontario**

***Structural Engineer***

1997 - 2012

Involved in investigation and assessment of failures of buildings and structural systems, and/or their components, and structures damaged by fire, explosion, water leakage, impact, vibration, etc., and preparation of reports. Investigation of building science problems.

Computer finite element analysis of two and three dimensional framed and plate structures using Stardyne. Structural analysis and design of concrete, steel, wood and masonry structures, utilizing engineering programs (STAAD, RISA, WoodWorks, Masonry Design Software). Drawing and modeling using AutoCAD.

***Structural Designer***

1995 - 1997

Computer modeling and animation of structural collapses using AutoCad and 3D Studio. Participated in the investigation and assessment of failures of buildings or their components, preparation of accident reports and photographic records, and structural analysis and design.

**Invest-Biro, Belgrade, Serbia**

***Structural Engineer***

1989 - 1995

Structural analysis, design and field review during construction. Responsible for variety of projects from inception to completion. Prepared project plans and specifications.

**Professional Affiliations**

- Professional Engineers Ontario
- Structural Engineering Institute
- American Society of Civil Engineers
- American Concrete Institute
- American Institute of Steel Construction



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### **Professional Development**

Numerous professional industry courses, seminars and webinars on structural, building science and engineering management, as reported through Practice Evaluation and Knowledge (PEAK) program of Professional Engineers Ontario. Typical examples of continuing professional education are:

- 14th Canadian Masonry Symposium (2021)
- Roof Damage Assessment, Haag Education (2021)
- Steel Design and Detail Issues, AISC Conference (2020)
- Petrographic Analysis of Concrete Deterioration (2019)
- Structural Design of Mass Timber, AIA CES (2018)
- Snow Loading for Non-Standard Roofs, ASCE (2018)
- Design Snow Loads for Complex Roofs, ASCE (2017)
- Cold-weather Concrete: Guide Updates, and Research on Placement and Early-Age Behavior, ACI (2017)
- Anchoring, Post Installed Rebar Design, NCSEA (2016)
- Mid-Rise Construction, Canadian Wood Council (2015)
- Performance-Based Requirements, Specification and Testing for Concrete and Sustainability, ACI (2015)
- Bolting and Welding for Design Engineers, CISC (2007)
- Modern Concrete, Dalhousie University (2002)

### **Publication**

Southward, R.E., Dzekic, S., *“Unbalanced Snow Loading and the Structural Integrity of Circular Arched Roofs”*, American Society of Civil Engineers, Practice Periodical on Structural Design and Construction, November 2005, pp. 209-216.

*\*Project history available upon request.*