

# MARIA STEFANESCU, MASC., P.E., P.ENG.

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(416) 918 - 4080

[Maria@Pagoda-Engineering.com](mailto:Maria@Pagoda-Engineering.com)

<https://www.pagoda-engineering.com>

## PROFESSIONAL EXPERIENCE

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### **President/Pagoda Engineering Inc., Toronto, ON – Present**

- Provide Structural Design Solutions for Residential and Commercial Projects
- Seal Design Reports for Permits and Approvals (Canada: BC, AB, MB, ON, NB; USA: OR).
- Product Testing Technical Support, Data Collection, Data Analysis & Product Reports for Building Code Approvals.
- Develop Technical Guides and Engineering Calculations for Marketing Reports/Brochures.
- Assist Builder/Contractors with Repairs.
- Develop Structural Analysis Specifications and Provide Engineering Support to the Software Developers and Software Users.
- Validate Structural Analysis Software for Compliance with the Governing Building Codes.

### **Senior Engineer, Calculated Structured Designs Inc., Toronto, ON, 04/2016 – 01/2017**

- Provided detailed structural analysis specifications to the software developers to be implemented in the structural analysis software
- Coordinated structural analysis integration for the component/whole house design and the tall wall software – isDesign, isPlan and isWall
- Provided engineering support/services to the customers

### **Product Engineer, Boise Cascade, Toronto, ON, 01/2011 – 03/2016**

- Provided technical support functions for customers, sales reps., field engineers, designers and architects
- Generated Boise's EWP technical documentation (Canadian guides, technical notes, and repair details)
- Developed structural analysis specifications for the software team

### **Project Engineer, Jager Building Systems Inc., Bolton, ON, 09/2002 – 09/2008**

- Achieved an excellent working record with the Engineering, Sales Representatives and Manufacturing divisions in identifying opportunities, evaluating competitive products and determining product costing
- Provided technical support/services to the customers
- Performed structural design and analysis using the governing codes and standards
- Developed, tested and implemented production quality assurance software to support consistent quality products and services
- Sealed structural drawings
- Developed prototypes; coordinate the testing process; collected and analyzed data using advanced quantitative methods
- Team leader in obtaining the required regulatory approvals for Jager's Engineered Wood Products in Canada and USA

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**Engineer in Training (EIT), Boise Cascade Corporation**, USA, Medford, OR, 08/2000 – 09/2002

- Acted as interface between product testing and development of BC Calc
- Provided detailed structural analysis specifications to the software developers for BC Calc and BC Framer
- Coordinated structural analysis integration into the CAD Software
- Developed Visual Basic Applications for various structural analysis projects
- Implemented specific requirements for the European and Japanese use of the structural analysis software

## PROFESSIONAL CERTIFICATIONS

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- Licensed Professional Engineer (P. Eng.) in Canada: BC, AB, MB, ON, NB
- Licensed Professional Engineer (P.E. – Civil engineering) in USA: OR

## EDUCATION

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**Masters of Applied Science degree (Wood Science/Civil Engineering)** University of British Columbia, Vancouver, BC, 1997-2000

- Advanced Engineering and Quantitative Methods/Statistics courses (advanced mechanics, structural design, reliability and structural safety, theories of probability and statistics; sampling distribution, methods of estimation and hypothesis testing; analysis of variance, multiple regression and correlation)

**Bachelor of Applied Science (Engineering)**, Transilvania University, Romania

## COMPUTER SKILLS

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- MS Office (Excel Expert, Macros, VBA), AutoCAD (2D and 3D), Weibull 5+ (Data analysis software), MS Project
- Engineering software: isDesign, isPlan, isWall, BC Calc®, BC Framer®, TJ-Beam®, Fast-Beam®, Key-Beam®, E-ZCad, Woodworks Design Office