

# NAME

0000 Spruce Court ▪ City, ST 00000  
777-777-7777 ▪ email@toast.net

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## STRUCTURAL ENGINEER

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*Dynamic, talented, and accomplished Structural Engineer with over 16 years of extensive hands-on experience desires challenging opportunity in which to apply consummate knowledge of advanced design and testing with variety of software and programming techniques. Equally skilled in reviewing, evaluating, and analyzing systems. Proven success with administration, troubleshooting, and repair. Learns new tasks and concept abstractions quickly. Adept at managing multiple responsibilities simultaneously. Fluent in English, French, and Romanian. Proficient in Italian and Spanish.*

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### PROFESSIONAL PROFILE

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- Undergraduate courses in Drilling and Exploration techniques, Geology, and mechanical equipments used in underground and open pit mining operations.
- Used numerical simulations to predict the behavior of underground excavations.
- Demonstrate comprehensive knowledge of Finite Element Analysis techniques using variety of software, as well as strong math and physics skills.
- Possess proven ability to learn and conquer new concepts and skills, balance priorities, meet tight deadlines, and produce exceptional quality.
- Regularly participate on structural FEA and design optimization projects.
- Offer solid track record based on organization, reliability, thoroughness, and dedication.
- Write supporting user documentation for new processes; update system engineering schematics as changes are made.
- Demonstrate diagnostic, analytical, and collaborative problem-solving skills; exhibits proficiency in translating issues into responsive, concrete solutions.
- Quickly and efficiently analyze operations to pinpoint areas for improvement and redesign.
- Communicate technical and complex information easily and concisely to colleagues and vendors.
- Ensure smooth business operations by following projects from conceptualizing phase to completion, including system design, incorporation of customer needs, and technical support.

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### CAREER HISTORY

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#### **Sr. Analytical Engineer**

**2008 – Present**

#### **Axle & Manufacturing, City, ST**

- FEA analysis and method development for vehicle driveling systems including stress analysis, structural optimization, failure and fatigue analysis.
- Communicate with customers, participation in meetings with designers, and development engineers.

#### **FEA Engineer**

**2004 – 2008**

#### **Company, City, ST**

- Develop solutions for finite element analysis (FEA) problems using variety of software applications.
- Organize structural FEA procedures for Ford flex plate group.

- FEA Engineer** **2000 – 2004**  
**Company, City, ST**
- Developed structural FEA simulations and design optimizations; managed file translations and drawings updates (saved through numerical simulations over \$200,000 in tooling rework).
  - Participated in product design on Honda projects (saved over \$70,000 in prototype phase through FEA simulations)

- Product Engineer** **1995 – 2000**  
**Company, City, ST**
- Developed structural FEA simulations and design optimizations.
  - Worked on-site in Detroit with Jeep Truck Engineering Group on Chrysler KJ 2002 program product design (brought jobs for the Company in value of over \$1,000,000).

- Research Assistant, 3D Numerical Modeling** **1992 – 1994**  
**University, City, ST**
- Compared capacities and results for three 3D Boundary Element numerical software applied in Rock Mechanics.
  - Used numerical simulations to predict the behavior of underground excavations.

- Mechanical Engineer** **1987 – 1990**  
**Corporation, City, ST**
- Managed all operations and activities for 30 staff members providing technical support for mechanical equipment used in the open pit mine.
  - Coordinate the exploitation activity in the open pit mine.

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## EDUCATION/PROFESSIONAL DEVELOPMENT

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- **Master of Science, Finite Element Analysis**  
Laval University, Québec, Canada
- **Post-graduated Diploma (Open Cast Mining and Quarrying – CESECO)**  
Mining School from Paris, Paris, France
- **Bachelor of Science, Mechanical Engineering**  
Petroșani University, Petroșani, Romania
- **Certifications** – NASTRAN/PATRAN, ABAQUS, CATIA V4, RADIOSS, CFD – Fundamentals, FE-Safe

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## COMPUTER/TECHNOLOGY SKILLS

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- Office Productivity – Microsoft Word, Excel, PowerPoint, Publisher, Project, Outlook, Access
- Computer-Aided Design – CATIA V4, CATIA V5, I-DEAS, UNIGRAPHICS, AutoCAD.
- Finite Element Analysis – NASTRAN, ANSYS, ABAQUS, FEMFAT, HyperCrash, HyperMesh, Optistruct, Patran, Radioss, SimLab, FE-Safe, CF Design
- **Boundary Element Method (Rock Mechanics and underground mining applications):** MAP-3D, BEAP-3D, EXAMINE-3D.