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**Rock Mechanics & Software Development**

<b>Expertise</b>	Rock Mechanics, Geological Modeling, Software Development
<b>Education</b>	Ph.D. (Geotechnical Engineering), 1997 M.A.Sc. (Hydropower Engineering), 1994 B.A.Sc. (Hydropower Engineering), 1991 Wuhan University, Wuhan, People's Republic of China
<b>Professional Experience</b>	
2021 – Present	Itasca Consulting Canada, Inc., Sudbury, Canada Senior Rock Mechanics Engineer
2019 – 2020	Vale Canada Ltd., Sudbury, Canada Senior Specialist
2018 – 2019	Epiroc Canada Inc., Sudbury, Canada Software Developer
2013 – 2018	Itasca Consulting China Ltd., Wuhan, China Principal Software Engineer / Senior Geomechanics Engineer
2011 – 2013	HydroChina – Itasca R&D Center, Hangzhou City, China Principal Software Engineer
2009 – 2011	Itasca Consulting China Ltd., Wuhan, China Software Engineer / Geomechanics Engineer
2004 – 2009	Itasca Consulting Canada, Inc., Sudbury, Canada Geomechanics Specialist
2002 – 2004	University of Toronto, Dept. of Civil Engineering, Toronto, Canada Research Assistant
1998 – 2002	Wuhan University, Coll. of Hydropower Engineering, Wuhan, China Associate Professor
1997 – 1998	Institute of Geological Science, Guangdong Province, China Geological Engineer

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**Project Experience**

*Rock Mechanics:* Engineering consulting on risk assessment and stability evaluation of complex rock masses by means of site investigation, instrumentation, and numerical modeling, including assessment of in-situ stress measurements and deformation measurements, simulation of rock-mass joint nets and structures, design and optimization of excavating sequence and reinforcement of rock masses.

*Geological Modeling:* Construction and analysis of complex geological models using explicit and implicit modeling algorithms. Management, analysis, and implementation of geological database.

*Software Development:* Programming applications in the field of geological engineering, mining engineering and hydropower engineering using C/C++, C#, and Python on Window/Linux platform. Expertise in 3D visualization techniques and geological modeling algorithms. Leading development work of BurstSupport etc.