

Computational Mechanics, Numerical Modeling, Project Management

Expertise Computational Mechanics, Numerical Modeling, Project Management, Database Development

Education M.S. (Computational Mechanics), 2005, Ruhr University, Germany
B.E. (Structural Engineering), 1993, Zhejiang University, PR China

Professional Affiliations Member: Registered Engineers for Disaster Relief (RedR), Nepal Engineering Council

Languages Fluent in English, Chinese (Mandarin), Hindi and Nepali

Professional Experience

2007 – Present ITASCA Consulting Canada Inc., Sudbury, Ontario, Canada
Civil/Geomechanics Engineer

2006 United Nations Mission in Sudan, Sudan, Project Manager

2005 (part-time) Dortmund University, Dortmund, Germany, Research Assistant

2004 – 2005 (part-time) Ruhr University, Bochum, Germany, Research Assistant
United Nations
Mission in Kosovo (formerly, Yugoslavia), Project Engineer

2002 – 2003 Mission in East Timor, East Timor, Civil Engineer

1999 – 2000 Volunteer, Nepal, Site Engineer

1995 – 1998 China Henan International Contracting Company, Nepal
Site In-Charge/Laboratory Engineer

1993 – 1995 China Sichuan International Contracting Company, Nepal
Engineer

Project Experience

Study of Damage Response of Gurson Material on Triangular Elements: Development of ABAQUS subroutines, formulation of finite-element triangular elements, modeling of simple test structures, study of the damage response and report writing.

Database Development and Manipulation: Development of different database and input files for finite element as well as boundary element packages; manipulation of the same using different programming languages. Development of MS Access database used in engineering and other work.

Code Development: Development of Java codes for finite element analysis and optimization of a selected truss structure. Development of C++ codes for finite element analysis of a framed structure. Development of utility programs used in engineering and others.

Civil Engineering Construction Projects (airport, roads and buildings): Project planning and execution, construction and contract management, estimating and costing, tendering and evaluation, testing and quality control, specifications and bill of quantities, etc.