

**Educational Qualification**

- 2008 PhD (proposed to graduate in Spring, '08)  
Structural Engineering (major) and Computer Science (minor), UNL
- 2003 M.S. in Structural Engineering, UNL
- 1987 Bachelor in Civil Engineering, SVR College of Engg & Tech., Surat, India

Professional Certification: Engineer-In-Training (Michigan) 2004.

**Professional Experience in US:**

(Dec.2004 – Till date) Design Engineer EIT

Supervisor, Jerald A. Schneider PE, SE, President, SSE

Job Responsibility: Project Management & Communication, Structural analysis and design of Industrial structures, Design load calculations using various codes, Foundation design, Steel tank & attachment design, Vibration analysis of structure, Load rating of structures, Explosion venting in building, FE modeling of structure using StaadPro, 3D modeling in TEKLA, Design and detailing of precast & prestressed buildings systems, Wooden structure design, review shop drawings and finally present project to Client. Following are the projects completed at SSE. Few important projects completed are:

- Aventure Grain Handling structures including large Silo Foundations, Reclaim Tunnel, Transfer Tunnel, Elevator pit and a Receiving Building with Rail and Truck unloading scale done for Robinson Constructions at Aurora, NE & Mt. Vernon, IN.
- Multi floor steel-framed Distillation Building, Fermentation Area with Sloped Bottom Tank with ring wall Foundation, Ethanol storage tank foundations 40 MGPY Ethanol Plant of Penford Product Inc., Cedar Rapids, IA.
- Multi floor steel framed Fame building, Refinery Building, Boiler building and Truck & Train Loadout Building for 40 mmpgy Ethanol Plant in Beatrice, NE.
- Refined modeling, structural investigation and research for existing food facility structural components like, DT saddles, U-bolts, Rails, Brackets, Rail Hangers, Hanger rods etc. under fatigue loading for different existing scenarios at different Cargil Meat Solutions plants all over the US.
- Structural Design, Modeling and Drawings for 6-Floor precast Parking Garage and 6-Floor Condominium for Swerd Design Group, Inc. Topeka, KS

(2001-2004) Graduate Research Assistant, UNL

Advisor: Christopher Tuan, PhD, PE, SE, Associate Professor, CE Dept., UNL

Job Responsibility: Conduct independent research to develop an efficient algorithm for large deformation contact problem, lead a team of 3 researchers; develop structural models using AutoCAD, Risa3D and StaadPro; write C++ code; calibrate models developed; liaise with sponsor; provide presentation. The project Three Dimensional Barrier Impact Response Model (BIRM3D) for modeling & simulation of Perimeter Security Barrier was sponsored by U.S. Department of State through USACE. PhD dissertation is on simulation of progressive failure of Perimeter Security Cable barrier.

(1988-2001) Scientific Officer and Senior Scientific Officer

Director, Assam Science Technology & Environment Council. Guwahati-India

Job responsibility: Analysis and structural design of buildings/ municipal structures; prepare structural drawing, foundation design and supervise execution of various civil works in field. The responsibility also included preparation of detail project reports on micro hydro-electric project including execution of related civil works.

Computing Knowledge: C++, StaadPro, TEKLA, ANSYS (basic knowledge), AutoCAD

Paper : R.D.Sarmah, C.Y. Tuan, and E.T. Foster, "Three-Dimensional Barrier Impact Response Modeling (BIRM3D)", Second International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, 5-7 July 2004