



Kamal Sadeghi P.E.

EXPERIENCE

Senior Project Manager

Peter T. Erdelyi & Associates

Architectural Engineering And Structural Design, 5/03/98 to present

Structural calculations, design, plan check, and structural observations for type V structures and commercial buildings.

Senior Project Engineer

ABS Consulting

EQE Structural Engineers Division, 1/02 to 5/03

Structural analyses, calculations, design, plan check, and structural observations for commercial, industrial, and institutional structures using full range of building materials and computer programs (projects such as seismic improvement of Aerospace Corporation Headquarters Building A-1, new bus station for Antelope Valley Transit Authority (AVTA), and four new condominium buildings with subterranean parking for Del Mar Station in Pasadena, Ca). Also preparing seismic evaluation, and PML reports for different types of structures (projects such as seismic evaluation of 20 buildings of JPL campus in Pasadena based on FEMA 310 and 356 documentations, and PML report for Metropolitan Lofts in Downtown Los Angeles) .

Sigma Consulting Engineers, 4/00 to 1/02

Structural analyses, calculations, design, plan check, and structural observations for commercial, industrial, institutional, and residential structures using full range of building materials.

Peter T. Erdelyi & Associates

Architectural Engineering And Structural Design, 10/98 to 4/00

Structural calculations, design, plan check, and structural observations for type V structures.

Applications And Support Engineer

- **Computer Aided Design Software Inc. (CADSi), 8/97 to 10/98**
Provided technical support and benchmark models for design (wire frame and solid modeling) and analysis of static and dynamic problems for international customers. Using POLYFEM (FEA package embedded in SOLID WORKS and CATIA) to perform static, thermal, and frequency analysis for different types of solid models. Using DADS to model different mechanical systems and solve the equations of motion (kinematics and dynamic analysis) for those systems.
- **Structural Research & Analysis Corporation (COSMOS/M Application), 1/95 to 8/97**
Provided technical support and benchmark models for design (wire frame and solid modeling) and analysis of linear and nonlinear (static and dynamic) problems for international customers.



Using COSMOS/M, COSMOS/WORKS, COSMOS/EDGE, and DESIGNER II to model and analysis of solids and parts used in auto industry, aerospace and ETC.

Design Engineer

- **Koffman Constructions**, 3/94 to 9/97
Retrofitting design and engineering consulting for wood buildings.
- **Rubicon Structural Engineers**, 6/94 to 6/95
Designed and analyzed piles of Pasadena Blue Line Underpinning Project.
Modeled a base isolated building using COSMOS/M.
- **Basec Structural & Earthquake Engineers**, Spring 94
Retrofitting design of URM buildings (houses, warehouses, apartment buildings and etc.)

ACADEMIC EXPERIENCE

Research Assistant, USC CE Dept., 6/91 to 8/97

- Involved in Carpenter Research Project; R/C structural modeling which included computer programming (NFRM and USC Adaptec computer programs using FORTRAN) and test-analysis correlation to study the behavior of R/C structures under cyclic and dynamic loading.
- Participated in Kajima Bridge Project; to test dynamic response and behavior of a cable- stayed bridge under earthquake and dynamic loading.
- Modeled and checked design of a seven-story concrete parking structure using ETABS.
- Checked design of two office buildings using SAP90.
- Researched on response spectrum superposition and site effects for Earthquake Engineering.

Research Assistant, Sharif University, 6/84 to 4/85

- Involved in design of a multi-story steel structure.
 - Involvement in retrofitting design of columns and foundations of a twenty-story R/C building.

Teacher Assistant, USC CE Dept., 1/91 to 12/93

- Served as teacher's assistant for CE courses at both graduate and undergraduate levels (CAD, Finite Element, Engineering Analysis, and ETC).

EDUCATION

Ph. D, Structural Engineering (Structural Mechanics), Aug. 1997
University of Southern California, GPA 3.70/4.00

MS, Structural Engineering, Dec. 1990
University of Southern California, GPA 3.80/4.00

BS, Civil Engineering, June 1986
Sharif University, Tehran, Iran, GPA 3.50/4.00



COMPUTER EXPERIENCE

Programming Languages (FORTRAN, C, & Basic) Software Proficiency (MS Office, ETABS, SAP2000, Safe, COSMOS/M, DRAIN-2D, RISA, ENERCALC, PC ANSR, IDEAS, Solid Works, COSMOS/Works, CATIA).

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