

Edwin J. Konrath, Jr.

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Tucson, Arizona 85730
(520) 298-1570

Engineering Consultant

Previous tasks have involved the broad spectrum of analysis including subcontract work on the Compact Range Antenna at Fort Huachuca, independent investigations, litigation, trial support and expert testimony since 1976.

Senior Staff Engineer

Hughes Aircraft Company, 1/1974 to 10/1976 & 4/1977 to 5/1988
Work entailed the analysis of structural and engineering mechanics problems arising during design, production and testing. Solution techniques varied from "hand crank" and simple tests to detailed **NASTRAN** finite element models involving substructures with symmetric and asymmetric loads.

Graduate Associate

Department of Civil Engineering and Engineering Mechanics
University of Arizona, 1/1974 to 12/1977
Taught Engineering Economics, Strength of Materials
Graduate Assistant Materials Testing Lab/class 9/1967 to 6/1969

Vice-President, Treasurer

Software Sciences, Inc. 4/1973 to 4/1974
Primary assignments were the business and technical management for a small computer software company. This highly successful operation was acquired by The MacNeal-Schwendler Corporation.

Senior Engineer - Hampton Office

The MacNeal-Schwendler Corporation, 7/1971 to 1/1974
The Hampton office maintained the **NASTRAN** computer program for NASA and covered the eastern United States and western Europe current MSC FEM support.

Associate Engineer Sr.

Lockheed California Company, 6/1969 to 7/1971
Advanced Development Projects Division-Skunk Works 7/1970-71
Developed guidelines and co-supervised a team of engineers developing a structural FEM the YF-12. Other projects included the L-1011, S-3A, and the AH-56.

Civil Engineer (Assistant)

Department of Public Works
City of Los Angeles, 6/1967 to 9/1967
Prepared plans and specifications for Assessment Districts.

Education:

Ph.D., Civil Engineering, University of Arizona, 5/1980.
M.S., Civil Engineering, University of Arizona, 5/1969.
B.S., Civil Engineering, University of Arizona, 5/1967.

Scholarships:

National Defense Education Act (NDEA) Ph.D. Fellowship,
University of Arizona, 1968-69.
Full athletic scholarship, University of New Mexico, 1962.

Publications:

Clipping and Capping Algorithm for an N-Sided Polyhedral Finite Element, University of Arizona Dissertation, April 1980.

Design Specifications for an Aircraft Noise Prediction Software Executive System, Software Sciences, Inc., October 1973.

Substructure Analysis Techniques and Automation, **NASTRAN**: User's Experiences, Third Annual Colloquium, NASA TMX-2893, C. W. Henrich and E. J. Konrath, Jr., September 1973.

NASTRAN Substructure Analysis Manual, MacNeal-Schwendler internal report, December 1971.

CALAC **NASTRAN** STRUCTURAL ANALYSIS MANUAL, Lockheed Report 24062, Edwin J. Konrath, Jr. and Gernot Haggemacher, December 1970.

Iterative Methods for Structural Systems, University of Arizona Thesis, January 1969.