

Richard A. Selby
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SUMMARY: More than forty years of experience in a Mechanical Engineering environment including positions as an individual contributor and a manager of engineering groups. Experience since 1966 with mainframe computers, mini computers and PC desk top computers and software. Thirty years of experience with computerized analysis software including Structural and Seismic Analysis software.

Skills:

- MS Office Products, MS Small Business Accounting, MS Windows, MS FrontPage, Quick Books Pro and MS Project
- FEA software ANSYS, ABAQUS, and proprietary Shock analysis codes
- AutoCad 2003, Autodesk Inventor 8 and PCT Pro-Engineering
- Adobe Acrobat, Adobe Photoshop 7, MS FrontPage, Flash MX and Dreamweaver experience.
- Design of Experiments, Engineering Testing, Software Verification and Certification.

Professional Experience:

Northrop Grumman Marine Systems, Sunnyvale, Ca. 1984 to 2005 (retired)

Manager, Systems Design Engineering

- Managed Materials Technology organization of seven engineers supporting all division programs in selection of materials and material processes.
- Managed Engineering and Materials test laboratory of twelve people supporting engineering prototype development of components and systems, and testing of incoming materials to insure compliance.
- Managed group of seven structural engineers supporting design and verification analysis for ship board components, turbine generators and propulsion units.
- Responsible for managing annual operating budget in excess of five million dollars.
- Interfaced with vendors and suppliers to Northrop Grumman from US and UK
- Frequently made presentations and status briefings to US Navy personnel to the Admiral level.

A.P. Engineering, Inc., San Jose, Ca. 1979 to 1984

Senior Analyst and Partner

- Provided consulting services for the design and analysis of piping systems and components for the civilian Nuclear Power program.
- Maintained expertise in seismic analysis and non-linear material and geometric behavior of structures.
- Helped develop software to model non-linear structures.
- Contracted services to Bechtel Engineering for piping system design and analysis for nuclear units at San Onofre Units 1 & 2, Palos Verdes Units 1 & 2 and Midland Michigan Units 1 & 2.

Control Data Corporation, Sunnyvale, Ca. 1973 to 1979

Senior Software Support Analyst

- Provided software support to data services users for CDC Cybernet Structural Analysis products.
- Performed benchmark work at customer site to support sales teams marketing main frame computer systems.
- Managed 12 month training program for Ford Motor Company Engineers to enable them to use computer software to downsize vehicle designs while maintaining crash worthiness.
- Supported Bechtel Corporation in analysis of nuclear reactor emergency conditions for pipe break and loss of coolant accidents.
- Performed seismic analysis on contract to architects for several buildings in San Francisco, including the TransAmerica building.

Education:

- B.S.M.E. at University of Washington, Seattle, WA. 1963
- M.S.M.E. at University of Washington, Seattle, WA. 1964

References:

- Mr. Ken Wagoner, Northrop Grumman Marine Systems
Manager, Information Technology
(408) 735-2660
- Dr. Alvin Nakagawa, Northrop Grumman Marine Systems
Fellow Engineer, Materials Technology
(408) 735-3769
- Mr. Steve Olmstead, Northrop Grumman Marine Systems
Manager, Trident Tech Services
(408) 735-2561
- Mr. Bruce Kackman, Northrop Grumman Marine Systems
Director of Engineering
(408) 735-2427