

PolyTechnic SoftWare Associates
Phone (805) 654-1344
Fax: (805) 654-1344

Ventura, California 93001-4300
e-mail: slarsen@poly-soft.com

Resume of...

Professor Stuart E Larsen

PolyTechnic SoftWare Associates, owner
1198 Navigator Drive, #78
Ventura, Ca 93001
805-654-1344

Education:

1963: B.S. Aeronautical Engineering, University of Cincinnati, Ohio
1965: M.S. Aeronautical Engineering, University of Cincinnati, Ohio
1967-1969: M.S. Program and Teaching, Engineering Mechanics
Arizona State University, Tempe Arizona

Employment:

1965-1966: General Electric, Advanced Engine Dept., Evandale, Ohio
1969-2001: Professor, California PolyTechnic State University (Cal Poly), San Luis Obispo Ca.
Departments of Aeronautical and Civil Engineering.
Retired from Cal Poly (Emeritus Professor status) in 2001 with 32 years of service.

Subject areas of teaching, research, and consulting:

Statics and Rigid Body Dynamics
Structural Analysis
Structural Design
Structural Dynamics and Vibrations
Matrix Methods and Finite Elements
Numerical Analysis and Computer Programming
Non-destructive Testing and Experimental Stress Analysis
Strain Gauge Technology
CAD, Alibre and Solid Works with FEM Analysis

Professional Development

1970-1995: Professional development largely focused on technical consulting in the areas of stress analysis, experimental stress analysis, and machine design, as well as Computer Aided Design using Solid Works. This activity has been with the following companies/organizations during the academic years and summers of the above calendar period.

Dynamic Science, Phoenix Arizona
Mini-Car, Goleta, California
Rohr Corporation, Chula Vista, California
Air Force, Flight Test Section, Edwards Air Force Base, California
Falcon Jet, Little Rock, Arkansas
Tracor Aviation, Santa Barbara, California
American Valley Aviation, Quincy California

1995-Present:

Created PolyTechnic SoftWare Associates (PSA), a sole proprietor licensed company located in Ventura California.
Company Goal: Engineering consulting and development of educational and engineering software

2001-Present

Consultant and Chief Engineer, American Valley Aviation, Quincy California
Responsibilities: Technical support for Navy contracts and new product development.

Publications:

Various company design and testing reports. There is also extensive software documentation of educational and engineering software. These items are too numerous to list but non-proprietary details could be provided upon request.

Inventions:

Patent 7,056,056: Collision Safety Device Having a Breakaway Shear Coupling, Issued June 6 2006

Patent Filed: Wire Rope Pre-Failure Indicator and Method of Using Same. Filing Date: November 29, 2006

Patent Filed: Retrofittable Cable Mechanical Fuse, Filing Date: January 4, 2007

Patent Filed, Dual Trolley, Single Boom Crane System, Filing Date: April 25, 2007