

[0041 "Engineer 2"]

JACK JEFFERSON
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A design mechanical engineer with more than 20 years' experience in electronic packaging, pumps, pressure vessels, trucks and aircraft cargo handling systems for leading Fortune 100 companies.

A highly practical licensed professional engineer with excellent hands-on knowledge of heat transfer, stress, shock and vibration analysis, code compliance, acoustics, weld design, specifications, and testing.

EXPERIENCE

Garrett Engineering Inc., Wakefield, Rhode Island 2002-2007

Senior Project Engineer

Responsible for reviewing and changing designs for cost effectiveness and compliance to ASME and American Petroleum Institute codes.

- Lowered pump vessel cost by more than 10% by eliminating non-essential codes, employing plastic analysis, reducing wall thicknesses and improving weld specifications.
- Produced a new and improved mathematical model that was adopted for the design of all pumps above 100 horse power to reduce vibration problems.
- Designed more than 150 large vertical turbine pumps used primarily for the petrochemical, irrigation and mining industries as well as municipal water systems.

Consulting Engineers Inc., Providence, Rhode Island 2001-2002

Consultant

Performed aircraft stress analysis for the modification of a Boeing 707 to accommodate a larger door.

Seaside Technology, Inc., Kingston, Rhode Island 1997-2001

Senior Mechanical Engineer

Provided analytical support for electronic packaging destined for ship and airborne applications.

- Successfully shock isolated a commercial high-resolution CRT monitor to meet the U.S. Navy's toughest standards.
- Developed a low-noise fan that produced 20 dB less noise than standard fans of the same application.
- Modified five major systems to meet U.S. Navy shock, vibration and thermal requirements.
- Developed an improved mathematical model for heat transfer from an electronics card cage, which resulted in a more reliable and cooler circuit board.

Providence Industries, Inc., Providence, Rhode Island 1994-1997

Engineering Specialist

Performed shock and vibration analysis on ten weapon mountings, forty electronic packages and four portable shelters.

Barber Corporation, Electrodynamics Division, Providence, Rhode Island 1992-1994

Consultant

Carried out launch forces as well as air-to-sea impact stress and shock analyses of a sonar buoy.

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American Car Corporation, Wayne, Michigan

1990-1992

Project Engineer

Analyzed truck bodies and suspension for the entire line of the company's trucks and buses in support of the vehicles meeting military and transportation requirements.

ABC Testing, Inc., Livonia, Michigan

1985-1990

Stress Analyst

Prepared stress analyses showing that aircraft cargo handling and dunnage systems satisfied customer and FCC requirements.

EDUCATION

Michigan State University, Livonia, Michigan

Master of Science, Mechanical Engineering
Bachelor of Science, Physics

LICENSE

Professional Engineer, License # M111111

COMPUTER SKILLS

ALGOR, Cosmos/M, ANSYS, Auto Cad, Lotus, WordPerfect, Excel, Basic, Applause, dBase IV and C language.

ASSOCIATION

American Society of Mechanical Engineers