

[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 petrol-chemical, 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.

**JACK JEFFERSON**

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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