

[0077 "Machinist/Quality Engineer"]

**JACK JEFFERSON**  
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A quality engineer with 17 years' experience in medical, aerospace and commercial products. Provided quality control in the manufacture of medical instruments, space shuttle engines, air ducting, irrigation systems, ordnance, circuitry boards and hardware products.

## EXPERIENCE

**ABC Engineering, Inc., Stone Engineering Division**, Providence, Rhode Island

1997-2007

### Quality Engineer

Began as a quality inspector and was promoted to quality engineer within two years. Supported a medical instrument manufacturer producing orthopedic and neurosurgical instruments under ISO 9000 and FDA good manufacturing practices (GMP) certification.

- Provided quality control guidelines for the manufacture of 20 new products using failure mode and effects analysis criteria.
- Used statistical process control (SPC) for short-run production employing high-technology research (HTR) QST 9000 software.
- Assured that customer requirements were covered in all manufacturing processes.
- Conducted process validations for production runs.
- Developed and improved inspection plans and methods.
- Determined dispositions and root causes of faulty material.
- Trained and certified machine operators and inspectors in blue print reading, SPC and GMP.
- Conducted vendor surveys and reviewed corrective actions for non-compliance.
- Interfaced with design engineers and manufacturing staff to improve the design and quality of products.
- Performed detailed pre-production design reviews and manufacturability analysis.
- Reviewed blueprint geometric tolerancing to assure form, fit and function integrity.
- Designed functional gauges reducing inspection cycle time.
- Developed a calibration system for instruments used in the inspection of products.
- Developed an operator certification program.
- Programmed a coordinate measuring machine (CMM).

**Crown Co., Walker Division**, Warwick, Rhode Island

1996-1997

### Quality Engineer (Contracted through Volt Technical Agency)

Assured that customer requirements were properly covered in the preparation and production of aircraft cooling ducts according to ANSI Y14.5M. Designed necessary inspection procedures. Represented the company during Customer and Federal Aviation Administration (FAA) audits.

**Rainbird Company**, Springfield, Connecticut

1994-1995

### Quality Engineer (Contracted through Inconen Employment Agency)

Interfaced with customers to ensure that all manufacturing and testing was in compliance to their requirements. Authored quality procedures and conducted vendor surveys and internal audits.

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**Marquardt Company**, Warwick, Rhode Island

1992-1994

**Class 'A' Inspector**

Conducted mechanical inspection of rocket engines and ordnance to blueprint requirements in accordance to blueprint and ANSI Y14.5M requirements. Performed internal audits of quality procedures and records. Analyzed SPC charts. Interfaced with quality, manufacturing, design engineering and other pertinent departments.

**Lyn-Tro, Inc.**, Wakefield, Rhode Island

1990-1992

**Quality Control Supervisor**

Supervised receiving, in-process and final inspection personnel. Interfaced with engineering, production control, purchasing and customers for the development and improvement of quality criteria for new and existing computer hardware products. Reviewed and updated quality manual and standards. Performed vendor surveys to assure compliance. Participated in material review board (MRB) meetings. Worked to MIL-I-45208.

**PRIOR EXPERIENCE**

Process inspector for a distributor of aerospace hardware and a manufacturer of circuit boards.

**EDUCATION**

**Rhode Island State University**, Providence, Rhode Island

**Bachelor of Science, Mechanical Engineering**

**Other courses:** Statistics classes

**AWARD**

Award of Excellence, ABC Engineering, Inc.

**CERTIFICATIONS**

Statistical Process Control  
Principles of Quality Assurance  
Procedural Writing  
Design Applications and Functional Gage Design  
Total Quality Management (TQM)  
Destructive Material Testing  
Geometric Dimensioning and Tolerancing  
Blueprint Reading  
Precision Inspection  
Calibration Systems  
Non Destructive Testing  
AutoCad 12.

**COMPUTER SKILLS**

Excel, MS Access, MS Power Point, Word Perfect, MS Word, MRP System (Symix), Network (Novell), CAD (Cadkey and AutoCad).