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Barringer & Associates, Inc.

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SUMMARY

A problem solving reliability, engineering, and manufacturing consultant with more than forty years experience in manufacturing technical products. Capable, innovative, and experienced manufacturing leader with broad knowledge of engineering and production concepts used for managing multiple domestic and international facilities.

ACCOMPLISHMENTS

- Trained more than: 6000 engineers in reliability engineering principles, 2000 engineers in life cycle cost, and 1500 engineers in process reliability issues to help engineers find business solutions to industrial problems and 1500 engineers in reliability software techniques.
- Simplified benchmark life tests for launching an advertising campaign against look-a-like manufacturers of spare parts using Weibull analysis.
- Initiated, implemented, and maintained ISO 9001 certification in a heavy manufacturing environment. for products used in a world-wide market
- Initiated and implemented new technology in multiple manufacturing plants while placing orders for \$45 million of production equipment to reduce cost, improve quality, and enhance customer service.

PROFESSIONAL EXPERIENCE

BARRINGER & ASSOCIATES, INC.

1993-Present

Reliability, Engineering and Manufacturing Consultant

President-Humble, Texas

Engineering consultant emphasizing reliability engineering projects requiring expertise in Weibull analysis of failures and methods for identifying high cost of unreliability in products and processes.

- Conducts training seminars worldwide on the use of reliability engineering techniques and life cycle costs for reducing the costs of unreliable processes and unreliable equipment based on previous experiences gained in working in high reliability industries and producing high reliability products for demanding processes.
- Author of **Reliability Engineering Principles** training manual for engineers, managerial education manual for **Management Overview of Reliability Engineering Principles**
- Author of **Life Cycle Costs** training manual for helping engineers make business decisions concerning the life and death of equipment
- Author of **Process Reliability** training manual for finding the reliability of manufacturing processes and identifying areas to improve the process for cost reduction.
- Author of **MonteCarloSimulationS™** software for Excel™ spreadsheets using Monte Carlo techniques for studying cost reduction opportunities by improving plant availability and reliability and for Monte Carlo life cycle cost simulation.
- Author of more than 40 technical and business articles with downloads available from the Internet at <http://www.barringer1.com/Papers.htm> using the concepts of reliability to make improvements.
- Author of more than 60 worked out technical problems in the field of reliability with downloads available from the Internet at <http://www.barringer1.com/problem.htm> using technical concepts of reliability and life cycle costs.

HYDRIL COMPANY

1975 - 1993

Manufacturer of oil field equipment.

Director, Engineering-Houston, Texas

1992 - 1993

Responsible for Product Engineering on blowout preventers, high-pressure drill stem valves, pulsation dampeners, and other high pressure drilling equipment. Reported to the President.

- Introduced Weibull statistical analysis into benchmark life studies.
- Improved bills of material accuracy on core product lines from 70% to better than 98% for improving the MRPII program for the company.
- Introduced PC based project-scheduling system integrated with manufacturing systems to keep engineering projects on schedule.

Director Manufacturing-Houston, Texas

1987 - 1992

Responsible for three domestic manufacturing facilities operating as cost centers and two foreign plants operating as profit centers.

- Initiated, implemented, and maintained ISO 9001 certification of Mechanical Products operations for fabricating equipment used in international locations.
- Directed 28% cost reduction on 30-year-old tubular products line through use of CNC lathe program innovations and tool replacement strategies.
- Introduced applied life data analysis statistics to factory situations, which reduced unit costs by 6 to 8% by improving tool replacement strategies.
- Made technical presentations to customers during visits to foreign plants.

Director Engineering/Operations-Tubular Division-Houston, Texas

1985 - 1987

Responsible for design, test, and manufacture of oil field threaded connections.

- Reduced engineering staff 42% while increasing output of new tubular connections. Increased patented applications for new casing connections, including personal contributions as patent co-inventor.
- Initiated the development and manufacture of a new concept of functional product gages for a dovetail wedge thread tubular product line, which broadened the grades of connections offered by the Division.
- Managed threading plants in USA, Singapore, Scotland, and Italy.

General Manager Tubular Manufacturing-Houston, Texas

1981 - 1985

Responsible for operating four widely separated domestic tubular threading plants.

- Spearheaded development of major capital expansion programs funded for \$179 mm in 1982. Two of these major expenditures included procurement of \$25 mm for large, hollow spindle, CNC lathes; and \$20 mm for the procurement of specially designed rotary transfer lines to thread tubing and casing at high production rates.

Plant Manager Tubular Plant-Houston, Texas

1976 - 1981

Managed the flagship plant for the Tubular Division threading operations.

- Increased plant population by 60% to 800 people during business upturn and more than doubled casing threading output with a \$20 mm plant expansion which was devised and implemented under personal direction.

Plant Manager Tubular Plants-Rochester, PA and Youngstown, OH

1975-1976

Managed two threading plants while learning Hydril's systems and operations.

- Initiated safety, quality, and operator training programs.

ROBERTS COMPANY

1972-1975

Manufacturer of textile equipment.

Operations Manager- Sanford, NC

Managed three manufacturing plants producing high-speed textile spinning frames.

STELLITE DIVISION, CABOT CORPORATION

1965-1972

Manufacturer of superalloy

Manufacturing Manager-Kokomo, IN

Manufacturing manager in wrought alloy products, fabricated products, powder metallurgy products, and foundry products. Responsible for Plant Engineering activities during a major construction period.

NUCLEAR DIVISION, UNION CARBIDE CORPORATION

1960-1965

Separation of U₂₃₅

Development Specialist- Oak Ridge, TN

Development engineer for ultra high speed rotating equipment used for separation of uranium isotopes and biological separation of viruses. Contributor to the National Cancer Institute Monograph: The Development of Zonal Centrifuges and Ancillary Systems for Tissue Fractionation and Analysis, June 1966, with participation in seven chapters concerning the design of ultra high-speed centrifuges and biocontainment.

EDUCATION

MS and BS with honors in Mechanical Engineering from North Carolina State University and membership in Tau Beta Pi and Pi Tau Sigma honorary fraternities. Attended Harvard University (1991) intensive course for manufacturing strategies.

PROFESSIONAL AFFILIATIONS

Licensed Professional Engineer (Texas 51508). Named as inventor in six USA patents. Technical associations include: American Society for Quality, American Society of Mechanical Engineers, Society of Manufacturing Engineers., and Society of Maintenance and Reliability Professionals. Fellow of ASME.

WEBSITE LOCATION FOR MORE DETAILS

Refer to <http://www.barringer1.com> for more details and worked out examples of technical details to improve the bottom line aspects of a business.

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