

JESSICA CLAIRE

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Profile

Results driven Mechanical Engineer with excellent technical, analytical, and communication skills. A record of positive achievement demonstrated by extensive participation and leadership in Manufacturing Engineering, Engineering Management, and Production Management projects. Additional experience in design, marketing and manufacturing support for fabricated metal products used for polymer filtration, turbine engine gas path seals, aerospace and industrial acoustic treatments, and thermal barrier systems. Four years experience in product design and manufacturing supervision for metallic brush seals used in gas and steam turbine engines. Seven years experience in Design and Manufacturing Engineering of aerospace and industrial acoustic products. Developed process for electrolytic nickel plating and brazing components used for semi-conductor bases. Justified, specified, developed layout and supervised construction of a 20,000 square foot metal working plant used for manufacturing semi-conductor bases. Developed manufacturing process for turbine engine abrasible air seals. Justified, specified and supervised installation and start up of machine tools, furnaces, welding equipment, and adhesive bonding equipment used to manufacture turbine engine compressor shrouds and main engine and auxiliary power unit acoustic treatments. Designed proprietary equipment for use in manufacturing porous metal fiber media used in filtration, acoustic, thermal barrier and air seal applications. Oversaw implementation of AS9100 and ISO9001 Quality Management Systems. Managed relocated product distribution activities from New York to Florida.

Areas of Expertise

- Project Management
- Quality Management System Implementation
- Production and Engineering Management
- Staff development
- Cost reduction
- Process development and documentation
- Process improvement/simplification
- Source evaluation and selection

Professional Experience

Engineering Manager/Quality Manager, 04/2000 to 11/2015

Allied International Corporation â€” City, STATE,

- Design, build, and test acoustic silencers for industrial and aerospace applications.
- Provide noise control analysis, recommend materials and noise control solutions.
- Provide other technical analysis as needed to support sales and marketing.
- Provide sales support for other electrical and mechanical devices distributed by Allied International.
- Responsible for all shop and office functions at the DeLand, FL facility.
- Responsible for Allied's Quality Management and Quality Control activities.

Manufacturing Engineer Project Engineer, Sales Engineer Product Development Engineer, and Manufacturing Engineering Manager, 03/1980 to 04/2000

Technetics Corporation â€” City, STATE,

- Managed a staff of up to 12 manufacturing engineers and technicians.
- Department responsibilities included development and documentation of all manufacturing and inspection processes, vendor selection, product cost estimating, equipment justification, design and installation, tool and fixture design, and facility planning.
- Member of the Technetics Quality Council, Material Review Board, and Management Corrective Action Board.
- Chairman of the Statistical Process Control Committee.
- Supervised development of manufacturing capabilities for machining, welding, brazing, heat treating, metal plating, adhesive bonding, and plasma spraying in compliance with a wide variety of commercial, aerospace, and government requirements.
- Worked with equipment and service suppliers to develop new manufacturing processes for brush seals and other new products.
- Supervised scheduling and daily activities of employees in the machine shop, seal ring, and brush seal manufacturing cells.
- Provided designs and/or provided customers with design assistance for sintered metal fibers used for abrasible turbine engine seals, acoustic treatments, thermal barriers, high temperature gaskets, and compliant spacers.
- Collected and analyzed data for statistical process control and improvement.
- Audited systems and processes for ISO 9000 compliance.
- Developed operator and equipment test procedures for special process qualifications.
- Justified and supervised installation of in-house CAD/CAM capabilities.

- Managed an 18 month Just In Time implementation project with assistance from a team from Arthur Anderson Consultants.
- This project was successful in reducing product lead times and work in process inventory by over 25% for stainless steel filter element manufacturing.

Education

Bachelor of Science: Mechanical Engineering, 1978

Rose-Hulman Institute of Technology - Terre Haute, Indiana

GPA:

Bachelor of Science in Mechanical Engineering, - Rose-Hulman Institute of Technology. Additional management and business training at Stetson University and Brunswick Corporation.

Affiliations

Skills

Experience with AutoCAD, Microsoft Office, and various ERP systems.

ISO9001 and AS9100 auditing.