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Objective:

To serve in an industrial environment interfacing with focused groups to improve systems, processes, and quality.

Experience:

**Oak Ridge National Laboratory,** 1 Bethel Valley Road, Oak Ridge, TN

**Manufacturing Engineer / Task Manager** (2021-2024)

* Develop, optimize and maintain procedures and processes for the manufacture of NASA hardware for space power systems
* Schedule, budget and control costs for production activities
* Ensure materials and components are manufactured to design requirements
* Conduct and track training activities for production personnel
* Maintain, track and purchase equipment and consumables
* Perform and report statistical trend analysis of critical product attributes
* Collaborate with program personnel including researchers, technicians and craft
* Document production, laboratory and research activities in monthly, annual and program reports

**Group Leader / Team Leader** (2017-2020)

* Served as an immediate supervisor for all staff members in the group
* Implemented a cohesive group strategy to ensure the success of ongoing research
* Assisted staff in setting performance and career goals
* Ensured all work was conducted safely and in compliance with policies and procedures
* Worked with vendors and contractors to provide the necessary components for the group

**Senior Technician** (2009 - 2016)

* Review production schedules, engineering specifications, and process flows
* Provide routine complex technical staff assistance on engineering projects
* Conduct research to determine available data
* Prepare preliminary designs and plans
* Collaborate with researchers to provide information and assistance related to the development of projects and programs.
* Maintain project design drawings and specifications
* Perform engineering calculations and prepares materials and cost estimates
* Manufacture parts or products with maximum efficiency
* Enact quality control procedures to resolve production issues and minimize safety risks
* Work with customers, safety and management to manufacture and ensure quality products as requested and in a timely manner
* Work with vendors and maintains professional working relationships with purchasing for bidding, quotes and acquisitions
* Responsible for accurately tracking materials and maintaining a multi-million dollar precious metals inventory

**Advanced Technology Services,** 8201 N. University Street, Peoria, IL

 **Tool and Die Maker/Shop Manager** (2008 – 2009)

* Studied blueprints or specifications and visualized the shape of dies, parts, or tool
* Computed dimensions of assembly and plans sequence of operations.
* Sets up and operated machine tools, such as lathes, milling machines, shapers, and grinders, to machine parts.
* Verified dimensions, alignments, and clearances of finished parts
* Repaired and modified tools and dies using machine tools and hand tools.
* Designed tools, jigs, fixtures, and templates for use as work aids.

**Boeing,** Boeing Road, Oak Ridge, TN

**Journeyman Machinist / Tool & Die Maker** (1991 – 2002; 2006 – 2007)

* Reviewed samples, drawings and instructions to understand specifications of production parts
* Planned the sequence of necessary actions for the completion of a job
* Took measurements and marked material for cutting or shaping
* Selected appropriate machines and position or load material for a job
* Determined and programmed size of batches, speed of machine, etc.
* Monitored machine while working to adjust the feed and identify issues
* Checked output to ensure consistency with specifications and discarded defects
* Kept records of approved or defective units
* Performed routine machine maintenance checks

Education:

University of Tennessee

Master of Science, Industrial Engineering

Graduated: May 2014

East Tennessee State University

Bachelor of Science, Industrial Engineering

Graduated: May 2006

Pellissippi State Technical Community College

Associate of Applied Science, Mechanical Engineering

Quality Assurance Concentration

Graduated: 1991

Pellissippi State Technical Community College

Associate of Applied Science, Mechanical Engineering

Computer Aided Manufacturing Concentration

Graduated: 1990

Machinist Certificate, Knoxville State Area Vocational – Technical School

Graduated: 1986

Journeyman Machinist – International Association of Machinists

Completed: 1996

Additional:

Eagle Scout

Earned: 1981

Assistant Scoutmaster 2004-2024