

MURPHY B. WITHERSPOON

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MANUFACTURING/TOOL ENGINEER LEAN SMED TOOLING PROCESSES

Manufacturing professional with experience and leadership skills in meeting customer demand by analyzing, designing and implementing processes and organizing equipment. Interface well with all professional levels. Skilled in achieving continuous process improvement through Lean, SMED, fixtures, jigs, dies, cutting tools, gages to ANSI Y14.5. Experience includes developing product producibility via tolerances and material selection, and providing feedback to the design, assisting in make/buy and providing cost and schedule estimates. Knowledge of motion control (use of cylinders, servo motors), manufacturing technologies, tooling and materials. Technical lead for the Tooling Department.

PROFESSIONAL EXPERIENCE

PACIFIC SCIENTIFIC, Division of Danaher Corporation, Duarte, CA

1995-2008

Manufacturing Engineer

Documented processes via manufacturing routing/traveler: machining, welding, radiographic inspection, passivate, penetrant inspection, assembly techniques and cleanliness steps. Implemented processes for new product and aged product. Developed manufacturing rework instructions to return product to engineering drawing standard. Developed manufacturing rework for warranty repair. Designed tooling, fixtures and jigs via Pro/E Wildfire 3.0. Provided justification for capital equipment. Perform make/buy decision. Provided guidance to Planners, tool shop and manufacturing cells. Able to manage projects, commitments and deadlines effectively through leadership and communication. Led lean teams to providing solutions to manufacturing problems.

- Led Gauge Coil lean team which reduced floor space >30%, cycle time >40% and inventory >25%.
- Led set-up lean team to reduce set up times for connector; achieved >80% reduction.
- Responsible for establishing and maintaining the overall manufacturing plan for a lean opportunity which included establishing a new product production cell made of welding, machining, cleaning, Radiographic inspect and Penetrant Inspection.
- Developed and implemented process and tooling to capture prototype contract for special bottle weldment.
- Led weldment lean team to a reduction of walk distance >65%, floor space >50% and inventory >45%.
- Develop and implement new product start-up: welding per AWS D17.1 class A, machining per ANSI Y 14.5, cleanliness per IEST-STD CC1246 level 100, Radiographic inspect per ASTM E 1742, and Penetrant Inspection.
- Black belt certified.. Lean (Kaizen) & SMED...1 piece flow, Combo sheet, load sheet, cell layout sheet associate to part flow....Train, Led, Sustain
- Participate in design reviews, provide inputs to department design practices, contribute to manufacturing floor resolution.
- Led visual management concept during 5s, lean, SMED events and participate in managing work order flow through the manufacturing floor.
- Included the concept Poka-Yoke on every fixture and tool during design process.
- Possess the ability to make persuasive arguments.
- Able to interface with all departments to accomplish the goal.

PARKER O-SEAL, Division of Parker Hannifin Corporation, Culver City, CA

1992-1995

Production Control

Responsible for production control and customer service. Defined elastomer processes. Designed rubber molds for injection and compression processes and supervised first article acceptance.

- Supervised manufacturing cell, producing 30,000 pieces per year.

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KIN TECH DIVISION, Division of Pacific Scientific Corporation, Yorba Linda, CA

1987-1992

Tooling Supervisor

Responsible for organizing and prioritizing activities of the Tool Room, Tool Grind, Tool Crib and Tool Design. Responsible for various elements of Tooling and Tool Engineering, including, but not limited to: providing design and cost specifics for building/utilizing tools.

EDUCATION

Bachelor of Science, Industrial Technology, Manufacturing, University of California, Long Beach, CA

COMPUTER SKILLS

Microsoft Word, Excel, PowerPoint; Oracle; AutoCAD and Pro/Engineer

INTERESTS

Toastmaster International (DTM); Reading Leadership Books; Pace Walking; Helping Others to Succeed