**Detail driven engineer with over 17 years of experience. Six Sigma green belt certification, and a record of accomplishment of success in consistent achievement in projects and goals. Skilled problem solver and trouble shooter. High rate for on-time deliverables, with low scrap rates. Excellent track record for safety, along with excellent communication skills.**

**Work Experience:**

**Vulkan - Manufacturing Engineer**   **July 2016 – Present**

* Developed and improved manufacturing processes using value stream mapping, Lean manufacturing, 5s, and Continuous improvement
* Created a TPM program to improve manufacturing efficiency, Process flow, and equipment layout
* Performed manufacturing calculation and controlling, Set time standards
* Made tooling recommendations for new and existing product lines
* Continuous improvement leader for facility
* Interfaced with design engineering in coordinating the release of new products, or product improvements

**Allegion - Manufacturing Engineer June 2015 – July 2016**

* Lead and implement Lean Manufacturing tools & techniques (workshops, Kanban, visual management, 5S, total productive maintenance, set-up reduction, etc.)
* Use formal problem solving techniques to identify and resolve complex problems.
* Initiate and manage productivity and cost savings projects.
* Implement and maintain process controls through advanced quality planning techniques (FMEA, key characteristics management, mistake proofing, etc.).
* Research, evaluate, justify, and recommend capital equipment for operations.
* Prepare capital expenditure requisitions and manage the implementation of capital equipment projects.
* Stay current with state-of-the art technologies and equipment.
* Participate in developing strategic manufacturing processes. Also assist in developing the short and long-range capital planning.
* Prepare and coordinate the implementation schedule for major projects and process changes.
* Develop and maintain all process documentation (ie. routings, standard work, work instructions, setup sheets, etc.) to ensure accuracy.
* Analyze proposed engineering changes for manufacturing impact and feasibility.
* Participate in developing and maintaining ISO 9001 procedures and documents for the manufacturing engineering department as required.
* Assist purchasing and quality Assurance in qualifying suppliers for new product or product changes.

**Case New Holland – Manufacturing Engineer (Advanced Manufacturing) November 2013 – May 2015**

* Evaluate and implement innovative, cost effective, manufacturing processes and techniques, which will improve the effectiveness of the manufacturing operations and business systems.
* Develop and define concepts and manufacturing processes for, and as an integral part of, all new product and product enhancement programs, using advanced engineering techniques such as DFM / DFA (Design for Manufacturability and Assembly).
* Develop manufacturing planning, capability requirements, and assessments, which facilitate the definition and specification of the manufacturing processes.
* Provide technical expertise and leadership for the timely resolution of manufacturing process and product design problems. Serve as a resource for cause / effect analyses, investigations, statistical studies, and corrective action planning.
* Integrate closely with various Platform and Engineering personnel, Manufacturing Unit Managers and Manufacturing Engineers to maximize product quality, production output, and schedule compliance, while minimizing costs.
* Develop and implement manufacturing flows, work station layouts and organization, and station controls, which optimize value added operations, operating costs, and product / process quality.

**Caterpillar - Manufacturing Engineer Athens, GA.** **March 2013-August 2013**

* Established new work centers and routings for all STTT lines
* Established all software for production monitoring.
* Responsible for all weld tests administered to production employees through written and verbal instructions.
* Responsible for setting all new tooling throughout the MHE and STTT production lines.
* Concept and design of all lifting devices to be utilized on the STTT line. Plant layout for new equipment.
* Responsible for standard work, and implenting it into SAP.

**Raymond Corp. – Engineering Tech. Specialist I Muscatine, IA.                     February 2012-March 2013** 

Assists engineering by handling assignments to integrate concepts to solve problems with well-known historical similarities.

* Kaizen coordinator
* Continuous improvement leader for all machining. Created and maintained of documentation of complex manufacturing processes and best practices. Deviation and change to requests as appropriate to support production needs.
* Interprets data and recommends course of action. Assists in trouble shooting, root cause, identification and implementation of corrective actions, and Collection of data and performance evaluation Work to be completed by either oral or written instructions.

**HRU Technical resources - Process Planner Rock Island, IL.         February 2011-February 2012**

 

* Responsible for estimating internal jobs for the United States military as well as supplying estimates to private companies.
* My experience covered all facets of manufacturing to include; Machined parts, Sheet metal, Welded Parts, Plastics, Assembly, and Coatings.
* Highly experienced in all methods of estimating including the use of Costimator software.
* Responsible for establishing all jobs into LMP (SAP) creating bill of materials, Routings, Scrap management, updating the system to reflect stock and part changes.
* Routed all jobs through CAPP software. Routed jobs to all facets to be done to maintain best production needs in a timely manner.
* Responsible for creating all new part numbers within the government's database.
* Worked with Methods to constantly bring cost reduction to in-production jobs.

**John Deere - Weld Engineer May 2003-April 2010**

**John Deere Davenport Works Oct.1996 – Oct.1999**

* Provides support and basic trouble shooting for current operations.
* Establishes routings, methods, layouts, tools, costs, methods documentation, quality plans and labor standards for revisions to current operations and/or new parts or programs.
* Identifies and implements cost reduction, quality, safety and ergonomic improvement ideas.
* Develops and implements plans to support lean manufacturing scope. Designs operations layouts to improve material flow and material presentation.
* Worked with a cross function team (design engineers, supply management, others) to create and evaluate design solutions to improve cost, quality and performance.
* Worked with a cross functional team to ensure thorough documentation of design solutions required for engineering decisions..
* Learns and applies Company engineering policies and practices.
* Executed testing and analysis plan for product verification and validation.
* Worked in Engineering to introduce the Caracus Planter.
* Engineering support on tooling and fixturing.
* Involved in setting standards for jobs to be manufactured on shop floor.
* Welding to experimental models for future use in production.

**Victory Athletics – Supervisor/Welder Mantua, OH. October 1999-May 2003**

**Supervisor:**

* Supervised twenty production employees, covering facets of welding, machining, and fabrication.
* Supervised a field crew for installation of sports equipment.
* Compliant with OSHA rules and regulations, along with EPA. As the safety coordinator I sustained zero recordable’ s for the four years of employment. Responsible for keeping all MSDS articles up to date.

**Welder:**

* Daily custom fabrication of sports equipment using mig, tig, and aluminum welding methods.
* Built products to customer specification reading blueprints and/or sketches.
* Installation of sports equipment.
* Performed safety inspections to existing equipment in schools, churches, and fitness gyms.
* Installation and fabrication of indoor and outdoor scoreboards and signs.
* Fabrication required the use of (but not limited to) iron works, 20-ton shears, bending, machining, painting, and welding.
* Manual arc, flux core, mig, and pulse welding methods for the welding of heavy construction equipment.
* Proficient in setting up own work using blocking, clamping, jigs, and fixtures to hold parts in position in order to avoid distortion.
* Meeting department deadlines of daily work to be met under set standards.
* Work with engineering on daily resolutions for product.

**Schmidt's landscaping - Owner/Supervisor Coal Valley, IL. March 2006-Present**

* Provided design and construction estimates for developments and private residences.
* Provided supervision to crews working on projects.
* Excellent background in researching, Planning, and coordinating projects.
* Outstanding record for completing projects on schedule and within budget.

**Education:**

BS, Mechanical Engineering. San Diego State University 1996

Six Sigma Green Belt FPY Power leader

SMAW, A-36, 1-3 G cert. FMEA coordinator

GMAW, A-36, 1/8” and over cert. Kaizen team leader

Total track cert.

Bystronic By-Bend programmer

**Systems Skills:**

SAP Word Total Track CAPP Costimator

LMP Excel By-Bend Lotus Notes Panasonic Robots

Outlook PowerPoint Rotrol FMEA Macola