

Nikolaus A. Kassler, MS, PMP

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Overview:

- Broad-based product development and industrial project management proficiency.
- Comprehensive product design and development engineering experience (prototype through production).
- Extensive manufacturing engineering background (metals, composites, ceramics, and general assembly).
- Process work-center development for manual, semi-automated, and heavy automation.
- Plant engineering, facilities management, and industrial energy efficiency skill-set.
- Extensive Quality Management System knowledge (AS-9100, ISO-9001, TS-16949)

Education/ Professional Development:

- **Master of Science Engineering Technology, Pittsburg State University**
Emphasis: Product Design and Development (3.82 GPA)
- **Bachelor of Science Engineering Technology, Pittsburg State University**
Double Major: Mechanical and Manufacturing Engineering
- **Project Management Professional (PMP)**
Certified through Program Management Institute (PMI)
- **D.O.E. AirMaster+ Certification**
Department of Energy compressed air systems efficiency expert

Professional Experience:

- **Project Management/ Project Engineering**
 - Project Management for new product development and delivery (various industries).
 - Project Management for industrial building/ grounds expansion and improvements.
 - Budget planning and allocation management (up to \$12M).
 - Project schedule planning and management (MS Project & other).
 - Risk management planning, monitoring, and strategy deployment.
 - Direction of resources for timely accomplishment of project activities.
 - Work Break-Down Structures (WBS) and Resource Assignment Matrices (RAM) development.
 - Presentation of project status reports to internal and external customers.
 - Support Business Development functions to produce accurate quotes and proposals.
 - Proposal and white paper generation for government contracts and grants.
- **Product Development/ Design Engineering**
 - Computer modeling and simulation of design concepts (SolidWorks, Autodesk Inventor, & others).
 - Generation of detailed design and production documentation packages.
 - Technical writing of product literature (install. & assem. instructions, user manuals, SDS, & test reports).
 - Product specification and compliance verification to Customer requirements (scope management).
 - Reverse engineering of existing products and redesign for cost, quality, and/or quantity requirements.
 - Prototype development for functional testing of design concepts.
 - Design of Experiments (DOE) for cost efficient product development.
 - Product engineering for reserve type Lithium battery programs.
 - Product engineering for active primary and secondary Lithium cells and batteries.
 - Design and development leader for ballistic armor product lines (facility, vehicle, & personnel).
 - Component redesign for ceramic material substitution for advanced applications.
- **Manufacturing Engineering**
 - Tooling, die, and fixture design for processing, handling, and measurement equipment.
 - Non-value time reductions in set-up and tooling changeovers (SMED) and cycle time optimization.
 - Specialty machine design and build (manual & automated, various industries).
 - Human and robotic cellular workstation layout, installation, and start-up.

- Reverse engineering of existing products to define manufacturing process requirements.
 - Development and supervision of preventative maintenance programs.
 - Process line development (tech. ceramics, heat treatment, composites, metal fabrication, assembly).
 - CNC machine programming, set-up, and operation (machining/ turning centers, wire/ sinker EDM).
 - Operation of manual machining equipment (mill, lathe, surface/ diameter grinding).
 - 20 years of general metal fabrication background (structural and sheet metal).
 - Supervision of production support technicians.
 - Lead on numerous Lean, 5s, 6σ, and Kaizen projects.
- **Plant Engineering/ Facilities Management**
 - Cost-benefit analysis for capital investments.
 - Design and implementation of industrial support and utilities systems for optimal efficiency.
 - Energy efficiency audits of industrial facilities.
 - Design and incorporation of integrated and stand-alone structures for plant auxiliary equipment.
 - Development and supervision of Computer Maintenance Management System for plant assets.
 - Integration of energy management systems (pneumatic, hydraulic, electric, & thermal).
 - Management of outside contractors: fire safety, security, maintenance, and construction.
 - Technical training and direction of key plant maintenance personnel.
- **Quality Management Systems**
 - Project lead for initial QMS implementations (ISO-9001, AS-9100, & TS-16949).
 - ERP/ MRP program development, implementation, and management (PLEX, E2 Shop Systems, other).
 - Development and coordination for customer Production Part Approval Process (PPAP).
 - Expansion and application of controlled Product Development Process (PDP).
 - First Article Inspection Administrator in an AS-9100 QMS (finished goods authorization).
 - Coordination of materials testing and evaluation (raw material thru finished goods).
 - Supplier approval and compliance auditor in an AS-9100 QMS.
 - Quality Engineer for AS-9100 QMS (compliance to specifications and regulatory requirements).
 - Generation of process quality control documentation (Gage R&R, MTBF, OEE, Cpk, TPM).
 - Generation of production process documentation (work instructions, job travelers, process specifications).
 - High volume, high precision live quality assurance implementation (in process gauging).

Employment History:

- **NK Pragmatic Innovations – Joplin, Missouri**
 - Owner/ Operator (January 2020 to Present)
- **EaglePicher Technologies – Joplin, Missouri**
 - R&D Project Manager (June 2018 thru December 2019)
 - Project Engineer (March 2014 thru June 2018)
- **DefBar Systems – Lebanon, Missouri**
 - Design Engineer (September 2010 thru March 2014)
- **Cerenesis – Lebanon, Missouri and Detroit, Michigan**
 - Process Engineer (July 2012 thru November 2013)
- **Precision Cutter and Tool – Lebanon, Missouri**
 - Tool Design Engineer (November 2009 thru September 2010)
- **Independent Engineering Consultant – Lebanon, Missouri**
 - Design and Systems Engineering (May 2009 thru September 2010)
- **Emerson Climate Technologies – Lebanon, Missouri and Natchitoches, Louisiana**
 - Facilities Manufacturing Engineer (July 2006 thru January 2009)
 - Production Engineer (July 2004 thru July 2006)

Additional Credentials:

- **ASME Boiler operation, maintenance and safety training**
- **ASME Y14.5 and ASME Y14.100 training**
- **EPA 608 HVAC technician certification (universal)**
- **Class E driver's license**