

RESUME

FRED WEBBERKING

LEAN – OPEX – INDUSTRIAL – MAINTENANCE – RELIABILITY – ENGINEERING

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CAREER SUMMARY

I introduce myself to you as a person who has an impeccable work history and an exemplary employment record of accomplishments and acquired experience. My career has been in three industries automotive, food and non-wovens. The job roles that I have held in these industries have been an evolutionary progression from then junior indentured apprentice to now senior managerial leader. My first apprenticeship was with SP Broughton as a Rolls Royce and Bentley Car Mechanic. My second apprenticeship was with Alfmeier Präzision SE as a lean six sigma Maintenance Manager. Transitioning my career from the automotive service industry into the manufacturing maintenance industry I combined my electrical mechanical maintenance engineering production background skills with my lean six sigma manufacturing engineering foreground skills have positioned me into the multi-disciplined professional that I am today.

CAREER ACTIVITIES

- Lean Continuous Improvement Systems Implementer
- Six Sigma, Reliability Centered Maintenance Practitioner
- Equipment, Reliability, Durability, Maintainability Devise
- Preventive, Predictive, Detective Maintenance Manager
- Process Value Stream Mapping Optimization Planner
- Co-Active Coach, Organizational Systems Developer
- Empathetical Mentor, Extra Curricular Work Volunteer
- Behavior Based Safety Systems Program Coordinator
- Kaizen Organizational Development Team Facilitator
- Quick Changeover, Mistake Proof Techniques Inventor
- Total Productive Maintenance Exponent, Skills Trainer
- Advanced Problem-Solving Methodologies Investigator
- Motivational Educator, Capital Projects Team Leader
- Team Builder, Intra, Inter Departmental Communicator

CAREER OBJECTIVE

Searching for a role to utilize my professional experience in helping a company of people to make a transformation for themselves by putting in place a proactive business plan to yield performance improvements on safety, quality, delivery and cost by deploying basic rationalization methods and a philosophy of motivating people to fulfil their own potential.

PROFESSIONAL EXPERIENCE

Senior Reliability Engineer **10/2024 – 04/2026**

Adidas AG **(Distribution Centers)**

Spartanburg, South Carolina

Key Responsibilities & Accomplishments

Design long-term, systemic future state reliability roadmap plan for critical physical assets risk mitigation management

- Assisted the company in the transitioning of the replacement facilities and material handling equipment contractors
- Established routine critical risk-based walk through visual and functional checks and inspections for FM equipment
- Established routine critical risk-based walk through visual and functional checks and inspections for MH equipment
- Created DC1/DC2 equipment reliability maintenance program planning and scheduling direct secondary equipment
- Created DC1/DC2 equipment reliability maintenance program planning and scheduling indirect primary equipment
- Enhanced DC1/DC2 material handling equipment reliability maintenance key performance indicators and metrics
- Educated contract maintenance managers, engineers, technicians in advanced problem-solving root cause analysis
- HS&E engineering controls team member 91% reduction in workers' compensation, LTIR 7 to 0, and TRIR 13 to 1
- Assessed strategic ten years capital expenditure STOs, obsolescence EOL, critical spare parts budget planning

Continuous Improvement Engineer 02/2020 – 10/2024

Röchling Automotive USA LLC (Automotive industry)

Spartanburg, South Carolina

Key Responsibilities & Accomplishments

Identify, analyze, implement process improvements across operations, reduce scrap, increase productivity and quality

- Lead Six Sigma chartered project to reduce scrap and defects which boosted roll throughput yield from 78% to 98%
- Instructed maintenance and process technicians in the use and practice of P-M Analysis advance problem solving
- Completed many production cell redesigns to improve the flexibility, capacity, reliability, capability and repeatability
- Carried out a plant wide 5S Red Tag event resulting in finding 40,000 square feet of available value adding space
- Facilitated SMED project on a 2,300 ton injection molding machine on a 30,00 lbs mold cutting 50% in set up time
- Conducted numerous time measurement studies to balance and set standard work methods in line with Takt time
- Taught process technicians on how to conduct full factorial Design of Experiments from extemporaneous methods
- I lead a \$250,000 capital project to relocate 5,000 components parts to a mini market to reduce transportation waste
- Fulfilled a plant wide 5S Red Tag event which concluded in over 40,000 square feet space of value adding space

Reliability & Continuous Improvement Manager 04/2011 – 08/2019

Fitesa (Non-Wovens Industry)

Simpsonville, South Carolina

Key Responsibilities & Accomplishments

Analyze data to identify prospects to lead cross-functional initiatives to eliminate waste and reduce unplanned downtime

- Utilized reliability and maintenance best practices to improved machine uptime from 65% to 95% within 12 months
- Personally trained all the maintenance personnel in the use and practice of P-M Analysis advance problem solving
- Coordinator on project team for the PFMEA, validation, verification of the DQ IQ OQ PQ of a \$85M capital project
- Developed vibration analysis, lubricant analysis, thermography inspections, ultrasound acoustic condition monitoring
- Instigated standardized work procedures for extruders gaining a 300% increase in MTBF from 12 days to 47 days
- Refined and implemented a 30/60/90 days onboarding process to bring new job recruits up to speed in less time
- Institutionalized a reliability road map by composing and deploying a comprehensive maintenance department policy plan
- Revamped the spare parts crib room, installing a bar code tracking system increasing inventory accuracy of > 97%
- Facilitated a FRACAS Kaizen event, which recognized over \$20,000 a year cost reduction in expendable tooling use

Continuous Improvement Specialist 01/2010 – 04/2011

Wells Dairy Enterprises (Food Industry)

LaMars, Iowa

Key Responsibilities & Accomplishments

Managed complex detailed six sigma projects with a focus on sequence, timing, functionality and cost effectiveness

- Performed a full three factorial four level 81 run design of experiment saving \$500,000 in lost stated inventory value
- Conducted measurement system analysis, which lowered gauge repeatability and reproducibility from 78% to 12%
- Coordinated incorporation plan that grew production efficiency from 30% to greater than 70% in less than 9 months
- Learned Dupont STOP program, help implement behavior-based STOP program conducting observations audits
- Identified \$28,000 savings by leading a Kaizen event that implemented a reduction in processing of new documents
- Completed 24 hours training course in Cause Mapping. I later went on to conduct two Cause Mapping events myself
- Standardized all data collection forms and work documents into a formalized electronic controlled formatted library
- Led the effort to develop, write, verify, train and qualify front line employees in 50 standard operating procedures
- Used Six Sigma tools to analyze and develop a project to understand inventory shrink losses in understated value

Lean Process Engineer 04/2007 – 01/2009

Fabri-Kal (Plastics Industry)

Greenville, South Carolina

Key Responsibilities & Accomplishments

Identifying wasteful inefficiencies in processes, applying lean methodologies to streamline operations and value delivery

- Led Total Productive Maintenance Kaizen event resulting in a sustained uptime improvement of 40% over 2 years
- Ran 5S training workshop on floor space utilization resulting in making over 10,000 sq. ft. of value-added floor space
- Coached middle management and supervisors in lean methodological practices and philosophies in lean thinking
- Instructed team leaders in molding setup reduction with 60% improvement on 14 molding presses and 160 molds

- Created over 100 parts operations to prevent escapes to the customer cutting external DPM by 50% - 500 to 250
- Schooled 28 production associates on 5 Whys problem solving to correct 6 major losses in production processes
- Trained employees on Right to Know, MSDA books, trained in First Aid and First Responder and Train the Trainer
- Applied a CMMS work order program to establish a base line and future tracking of maintenance work order backlog

Lean Project Manager **04/2005 – 05/2006**

Stankiewicz (Automotive Industry)

Spartanburg, South Carolina

Key Responsibilities & Accomplishments

Implement lean methods to streamline processes continuous improvement while ensuring maximum value, efficiency

- Supervised into action numerable SMED workshops, which resulted in a changeover and setups deduction of 33%
- Led Total Productive Maintenance Kaizen event, which directly resulted in a sustained uptime improvement of 25%
- Championed kaizen workshops to map out current and future states to link and optimize processes with operations
- Ran 8, 5S training workshops, 3, Kaizen events 2, product value stream mapping sessions and TPM Kaizen events
- Executed change in inventory strategy to reduce overlap inventory of items used in multiple places throughout facility
- Worked as a mentor and resource for the maintenance team in the mitigation and prevention of equipment failures
- Assessed and organized small just 'go-do-it' improvement projects to optimize information, material and workflows
- I conceived a suggestion system called SIP, one of the suggestions netted an internal scrap loss reduction of 50%
- Launched the concepts of 'Poke Yoke' mistake proofing after a major loss in chemical cross contamination event

Maintenance Manager **01/1999 – 04/2005**

Alfmeier Präzision SE (Automotive Industry)

Greenville, South Carolina

Key Responsibilities & Accomplishments

Plan, oversee all maintenance activities to ensure equipment reliability, operational efficiency, while controlling costs

- Spearheaded company Total Productive Maintenance. This initiative reduced equipment downtime from 10% to 2%
- Increased maintenance wrench time from 15% to 35% and cut 8 weeks out of the maintenance planning backlog
- Managed annual maintenance budget of \$2.8M to understand where improvements can be made to control costs
- Utilized Reliability Centered Maintenance principles to reduce downtime and improve maintenance effectiveness
- Introduced a step-by-step process of how to evolve equipment PMs, CPMs, PdMs, CPdMs and work order system
- Facilitated a Kaizen event, which discovered \$40,000 improvement in operator utilization by rebalancing work tasks
- Created and implemented an elementary testing assessment to screen only in the best technical job candidates
- Instigated planned scheduled executed and attained maintenance compliance training to Arch Flash NFPA-70E
- Oversaw several small, medium, and large-scope projects and cost budgets for facilities and engineering projects

Production Maintenance Technician **08/1997 – 11/1998**

Robert Bosch (Automotive Industry)

Anderson, South Carolina

Key Responsibilities & Accomplishments

Ensuring optimal operation, reliability, trouble-shooting of production equipment, performing preventive maintenance

- Engineered several machinery upgrades, which improved the overall equipment effectiveness from 70% to 90%
- Self-actualized many quality control improvement that affected the defects per million improving it from 176 to 11
- Evolved quality at source inspection processes to enable the decrease in scrap and rework from >8% to <3%
- Executed changes to maintenance calibration programs to acquire and maintain ISO 9000 standard compliance
- Active member for quality department while maintaining responsibilities for the manufacturing engineering team
- Coached and counselled other technicians in knowledge based 'know-hows' using maintenance best practices
- Resolved electrical and PLC software problems using Allen-Bradley SLC500 and Siemens S5 Software packages
- Worked collaboratively with inside and outside applications and OEM engineers to rectify equipment loss problems
- Monitored key maintenance performance metrics of the meantime between failures, the meantime to repair and OEE

General Maintenance Engineering Technician **08/1996 – 01/1997**

General Nutrition Company (Food Industry)

Greenville, South Carolina

Key Responsibilities & Accomplishments

Maintaining machinery, equipment and facilities systems reliably by performing inspections and preventive maintenance

- Renovated boiler room to make its organization and operation better and updated boiler water conditioning testing
- Eliminated chronic cooling tower water conditioning problems by making improvements to maintenance in 6 months
- Installed and populated DataStream MP2 a computerized maintenance management software (CMMS) package
- Arranged and conducted training to strengthen the maintenance team in proper equipment care and troubleshooting
- Collaborated with processing and operations' team leaders to reduce overall equipment downtime from 6% to 4%
- Developed and enforced improvements for maintenance best in class for organization during ISO/QS auditing
- Install, inspect and maintain electrical and electronic equipment and components for production and plant site
- General maintenance for plant wide logistical support equipment, ancillary machines and site water treatment plant
- Created inspection checks for 250 BHP fire-tube boiler and 250 Ton centrifugal chiller and cooling tower water testing

Maintenance Engineering Technician **02/1992 – 07/1996**

Good Humor-Breyers Ice Cream **(Food Industry)** **Job Transfer - Unilever Company US**

Sikeston, Missouri

Key Responsibilities & Accomplishments

Conducted line maintenance, shutdowns, turnarounds and overhauls to ice cream and water ice producing machinery

- Designed centralized brine delivery system and make up system cost savings that projected and yielded \$80,000
- Participated in creating an OSHA 1910.119 R-717 ammonia refrigeration system Process Safety Management manual
- Observed and prioritized top reliability and downtime issues while helping by properly categorizing downtime events
- Preserved and ensured functionality of all facilities related equipment boilers, chillers, compressors and HVACs
- Key engineering decision maker member in all aspects of facility upkeep, modifications, and equipment upgrades
- Led innumerable root cause analyses RCFAs on equipment and successfully reduced downtime 80% attributed
- Organized daily, weekly, monthly planning and scheduling meetings to aid in better scheduling attainment of $\pm 5\%$
- Attained company certification in R-717 RETA (Refrigeration Engineer Technicians Association) course study
- Maintained repaired flow wrapper packaging machines carton erectors horizontal vertical stretching film wrappers

Maintenance Engineer **02/1986 – 11/1991**

Birdseye-Wall's Ice Cream **(Food Industry)** **Job transfer - Unilever Company UK**

Gloucester, England

Key Responsibilities & Accomplishments

Conducted line maintenance, shutdowns, turnarounds and overhauls to ice cream and water ice producing machinery

- Designed a product ingredients separation device that reduced rework from 10,000 gallons to 500 gallons a year
- Carried out new and retrofits to core processing equipment installations commissioning capital installation projects
- Passed all relevant internal company training tests to become a recognized industrial power and control electrician
- Improved maintenance and repair procedures for wax ink jet printers resulting in a \$10,000 cost savings annually
- Provided project plan specific coordination and making the connections to internal / external technical resources
- Developed, implemented systems and procedures for technical support, preventative and predictive maintenance
- Resolved the repeated failures of bulk ingredient supply pump with a Mean Time To Failure of 7 days to infinity
- Constructed plant facility projects, refrigeration systems maintenance overhauls repairs, upgrades and restorations
- Active safety committee member carried out scheduled equipment electrical, mechanical safety inspection tests

Production Maintenance Technician **09/1982 – 02/1986**

Carr-Speed Plastics **(Automotive Industry)**

Gloucester, England

Key Responsibilities & Accomplishments

Site wide duties for the general operational maintenance of and vacuum forming and thermoset forming machinery

- Oversaw the day-to-day operation of electrical / mechanical corrective maintenance to restore production uptime
- Helped build and install a custom 4500 kW vacuum forming machine saving the company \$370,000 in capital costs
- Identified, planned, and applied Reliability, Availability, Maintainability and Safety (RAMS) tasks for plant machines
- Developed and maintained routine preventative Maintenance programs supporting Krauss Maffei RIM molding Lines
- Developed and maintained routine preventative maintenance programs supporting Illig vacuum forming machines
- Designed and manufactured frames, fixtures, and fittings and installed them on to assess new product start-up tooling
- Overhauls, rebuilds and repairs of hydraulic pneumatic mechanical and electric power and control process systems
- Performed scheduled maintenance on all facility support equipment in the plant such as air compressors and boilers

S.P. Broughtons (Automotive Industry)

Cheltenham Spa, England

Key Responsibilities & Accomplishments

Successfully completed five years' indentured apprenticeship as a Rolls Royce and Bentley motorcar mechanic

- Attended North Gloucestershire College Arts Technology, completing all City & Guilds of London Institute exams
- Earned relevant industry qualifications pursuant with the National Joint Council Motor Vehicle Retail Repair Industry

EDUCATION / TRAINING / FORMAL / INFORMAL / QUALIFICATIONS / CERTIFICATIONS / SKILLS / IN UK-US

- Completed Light Vehicle Mechanic Indentured Apprenticeship National Craft Certificate **Associate Degree** UK
- NJCMVRR (National Joint Council Motor Vehicle Retail & Repair Industry)
- Engines – Light Chassis Components (City & Guild London of Institute)
- General Technologies – Light Vehicle (City & Guild London of Institute)
- Multi-Skilled Maintenance Engineering Craftsman (Engineering Industry Training Board) **Associate Degree** UK

ELECTRICAL MECHANICAL INDUSTRIAL MAINTENANCE RELIABILITY ENGINEERING

- Certified Maintenance and Reliability Professional CMRP (SMRP – SMRPCO) US
- EPA 40 CFR P.82 S.F Refrigerant Transition and Recovery Universal Certification (Ferris State University) US
- RETA Certified Industrial Mechanical Refrigeration Technician R-717 (Good Humor-Breyers Certification) US
- Maintenance Management (1.4 CEUs – Clemson University) US
- TPM Total Productive Maintenance (Self Taught – Subject Matter Expert) US
- RCM Reliability Centered Maintenance (Self Taught – Subject Matter Expert) UK-US
- National Electrical Code (2.1 CEUs – National Technology Transfer) US
- Electrical Electronic Devices (Astra Training Services) UK
- Programmable Logic Controllers (Astra Training Services) UK
- GE Fanuc Series 90-30 Programmable Logic Controllers (GE Fanuc Automation Crescent Electrical) US
- AC VFD Drives (24 Hours – Allen Bradley Automation) US
- Identification Use Electronic Components EITB J525 (Astra Training Services) UK
- 15th Edition IEE Wiring Regulations Electrical Installations (City & Guilds of London Institute) UK
- 15th Edition IEE Wiring Regulations Electrical Installations (Astra Training Services) UK
- Steam Plant Maintenance Certification (Spirax Sarco – City & Guilds of London Institute) UK
- Applied Pneumatics Training Course Certificate (36 Hours – Martinair Pneumatics) UK
- Service Pneumatics Training Course Certificate (36 Hours – Martinair Pneumatics) UK
- TIG Welding Training (32 Hours – Manpower Services Commission) UK
- Maintenance of Wrapping and Packaging Machinery (Engineering Training Authority) UK
- Mechanical to Electrical Conversion Course Engineering Craftsman (Engineering Industry Training Board) UK
- Mechanical to Electrical Conversion Course Validated Achievement (Engineering Industry Training Board) UK
- Hydraulics Injection Molding Machine Certificate (36 Hours - Plastics Processing Industry Training Board) UK

COMPUTER MAINTENANCE MANAGEMENT SYSTEMS

- MP2 (Maintenance Professional 1 & 2 – DataStream) US
- FIIX (Fiix Software®) US
- Maximo (PSD 1988 – IBM 2000) US

LEAN SIX SIGMA

- Six Sigma White Belt Certification of training (EDCT – Greenville Technical College 3.2 CEUs) US
- Six Sigma Yellow Belt Certification of training (EDCT – Greenville Technical College 3.2 CEUs) US
- Six Sigma Green Belt Certification of training (EDCT – Greenville Technical College 8.0 CEUs) US
- Six Sigma Green Belt Certification (Wells Dairy Enterprises Simplilearn®) US
- Six Sigma Black Belt Certification (Wells Dairy Enterprises Simplilearn®) Chartered Six Sigma Project US
- Lean 101 Lean Manufacturing Principles (0.8 CEUs – Greenville Technical College) US
- 5S Training (0.8 CEUs – Greenville Technical College) US
- Kanban (0.8 CEUs – Greenville Technical College) US
- Mistake Proofing (0.8 CEUs – Greenville Technical College) US
- SMED Quick Change Over Set-Up Reduction (0.8 CEUs – Greenville Technical College) US
- Policy Deployment (0.4 CEUs – Greenville Technical College) US

• Lean Office Kaizen (0.8 CEUs – Greenville Technical College)	US
• Kaizen (40 Hours – Kaizen Institute of America)	US
• Value Stream Mapping (1.6 CEUs – Greenville Technical College)	US
• Standardized Work (1.2 CEUs – Greenville Technical College)	US
• Story Boards PDCA PDSA SDSA (Self Taught – Subject Matter Expert)	US
• MiniTab 16 Statistical Analysis Software (Self Taught & Gemba Academy Inc.)	US
• ISO 14001 Internal Auditor (24 Hours – South Carolina Manufacturing Extension Partnership)	US
• ISO 9000 (24 Hours – South Carolina Manufacturing Extension Partnership)	US
• IATS 16949 (24 Hours – South Carolina Manufacturing Extension Partnership)	US
• Internal Auditor Training (8 Hours – Alfmeier Corporation Company Certification)	US
DRAFTING & DESIGN	
• AutoCAD 2D-3D 2012 – 2026 Autodesk (Self Taught & LinkedIn Learning – Intermediate – Advanced)	US
• MS Visio 2003 – 2019 (Self Taught)	US
PROJECT MANAGEMENT	
• Certified Associate Project Management (CAPM)® Project Management Institute)	US
• Project Management (0.6 CEUs – Fred Pryor Seminars Career Track)	US
• MS Project 2010 (LearnKey – OnlineExpert.com)	US
• MS Project 2000 – 2016 (Self Taught)	US
PROBLEM SOLVING	
• DMAIC Six Sigma Yellow, Green, Black Belt Certified (EDCT – Greenville Technical College – SimplyLearn®)	US
• 5 Whys Problem Solving (0.8 CEUs – Greenville Technical College)	US
• P-M Analysis Advanced Problem Solving (Self Taught – Subject Matter Expert)	US
• Cause Mapping I & II (1.6 CEUs – Think Reliability IACET)	US
• 5 Whys Iterative Problem Solving (Self Taught – Subject Matter Expert)	US
• 8D Disciplined Team Oriented Problem Solving (0.8 CEUs – Greenville Technical College)	US
• 8D Disciplined Team Oriented Problem Solving (8 Hours – Alfmeier Corporation)	US
• A3 Problem Solving PDCA Method (Self Taught – Subject Matter Expert)	US
ORGANIZATIONAL DEVELOPMENT	
• Team Leadership Training (8.4 CEUs – Greenville Technical College)	US
• Training The Trainer (1.6 CEUs – Ready SC Technical College System)	US
• Dealing Effectively Employee Behavior (6 Hours 0.6 CEUs – SkillPath Seminars)	US
• Crucial Conversations (16 Hours – VitalSmarts Training Systems)	US
• Competition Law / Antitrust Law / Anti Bribery Law (Baker McKenzie Link – E Learning 100% Test Scores)	US
SAFETY	
• DuPont STOP Behavior Based Certified Safety Observer Auditor Training (8 Hours – WDI/BST Solutions)	US
• SafeStart Behavior Based Safety (24 Hours – ElectroLabs Training Systems Certified Trainer)	US
• Arch Flash & Electrical Safety 1910 NFPA-70E (4 Hours – Nvisage Consulting Group LLC)	US
• BowTie XP Safety Risk Assessment Software – (CGE Products) – (Self Taught)	US
• HazWoper (24 Hours – University of Missouri Columbia Vice Provost Re-certification)	US
• HazWoper (08 Hours – University of Missouri Columbia Vice Provost Re-certification)	US
• HazWoper (08 Hours – University of Missouri Columbia Vice Provost Re-certification)	US
• HACCP Workshop Training (24 Hours – AIB – American Institute of Bakers)	US
COMPUTER SOFTWARE APPLICATIONS	
• MS Excel (1.9 CEUs – Greenville Technical College)	US
• MS Excel Advanced (0.7 CEUs – Spartanburg Technical College)	US
• MS Excel 2010 (LearnKey – OnlineExpert.com)	US
• MS Word 2010 (LearnKey – OnlineExpert.com)	US
• MS Copilot 2026 (Self Taught & Microsoft Training Seminars)	US
• Adobe Photoshop Element 2023 (Self Taught)	US
• MS PowerPoint 2010 (LearnKey – OnlineExpert.com)	US
• MS Word 1995 – 2019 (Self Taught)	US
• MS PowerPoint 1998 – 2019 (Self Taught)	US
• Adobe Acrobat Pro– 2020 (Self Taught)	US

I have compiled a photographic and diagrammatic on-line career portfolio website illustrating examples of my engineering proficiencies, cost saving contrivances, organizational acumen, good judgment, resourcefulness, reliability improvements and diagnostic perception. With a full listing of my vocational disciplines, qualifications, certifications and references letters that supports and exemplifies my technical knowledge, skills and abilities to the fact of this resume <http://www.fredwebberking.com>