

ARIC JAY PARR

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BACKGROUND SUMMARY

A proven problem solver with experience in manufacturing, process development, quality engineering, and R&D in adhesives, coating, electronics and electrochemistry. Work has resulted in plant awards, patents, cost savings, resolution of long term problems, quality and efficiency improvements.

CAREER ACCOMPLISHMENTS

PROCESS AND MANUFACTURING ENGINEERING:

- Patented process for spray coating application. Process resulted in trade publications, articles and seminar presentations. Material supplier utilized project for sales demonstrations and visits.
- Sourced and designed injection molds, cutting dies and assembly tooling. Developed, qualified, justified and sourced non-stick coatings for injection molds.
- Justified, specified, sourced and installed new production equipment, materials and tooling.

PROCESS OPTIMIZATION/LEAN MANUFACTURING:

- Eliminated a shift of production without any capital or labor increase on remaining shifts. Balanced line, improved yield, eliminated bottlenecks and reduced changeover time.
- Performed run at rates, capacity analysis, and time and motion studies. Identified bottlenecks, constraints and sources of waste. Presented data to management and customers.
- Developed new process that saved \$0.25/unit vs. the previous method by automating and combining multiple operations. Justified required investment and raw material price increase.

QUALITY ENGINEERING:

- Primary customer contact for launch, support and field issues. Created and led cross functional teams and managed open issue lists. Closed issues at customer.
- Utilized 8D, DDW, 5Y, 5P, Pareto, SPC, DOE, controlled experiments and other techniques to improve product and process. Developed and implemented preventative and corrective action (CAPA).
- DFM/DFA/DMAIC. Utilized FMEA, stack analysis, MSA, process capability studies, constraints and lessons learned to improve new and existing products.
- Created FMEA, Control Plan and RPN reduction plans. Created, led and participated in teams.

QUALITY SYSTEMS:

- Completed all APQP and PPAP requirements and documents. Created and managed cross functional teams. Maintained and drove open item lists with design, suppliers, the customer, manufacturing, and other groups. Negotiated launch and PPAP requirements with customers.
- Developed quality system for new startup. Member of teams and/or team leader.
- Performed customer and third party supplier audits. Worked with suppliers to identify and correct the true root cause. Created and maintained open item lists. Implemented containment.

PROGRAM MANAGEMENT:

- Created and managed budget, schedules, costing and qualification plan for new projects up to \$500k. Managed project timeline and budget. Launched project.
- Successfully launched new PCB process material and manufacturing process in Mexico. Responsible for all aspects of launch and delivering project on schedule.
- Created corporate procedures and activities related to quality, production and quality systems.
- Coordinated controlled shipping activities with suppliers, their suppliers, and production plants. Created database, charts and management reports for tracking over 100 issues. Drove closure.

PROFESSIONAL EXPERIENCE

INDEPENDANT CONSULTANT

10/2008-Current

- Set up Quality System and Quality Documentation for a startup company
- Assist clients in injection mold sourcing and design.
- Lead Training Seminars and Workshops.
- Volunteer Quality Coach for a non-profit organization that assists medical practices improve efficiency.

MICROHEAT, Farmington Hills, MI

2/2006-10/2008

QUALITY ENGINEER

- Lead engineer for identifying and implementing corrective action for warranty issues. Worked with Design Engineering, PCB and other suppliers to implement corrective actions.

- Successfully launched company's first volume product.
- Created and maintained gage calibration and MSA (Gage R&R) system.

ATCO INDUSTRIES, INC, Sterling Heights, MI

4/2004-2/2006

CS2 PROGRAM MANAGER, QUALITY ENGINEER, QUALITY MANAGER (ON CONTRACT)

- In direct contact with multiple customers and projects on a regular basis.
- Set up ATCO Industries processes and procedures as a GM Controlled Shipping Level 2 provider.
- Set up, audited and maintained containments, sorts and corrective actions.
- Consulted with customers and their suppliers on PCB launch issues. Corrected PCB launch issues.

GENERAL MOTORS POWERTRAIN, Contract Engineer, Pontiac, MI

8/2002-4/2004

SUPPLIER QUALITY ENGINEER, CONTROLLED SHIPPING COORDINATOR.

- Coordinated all aspects of controlled shipping activities with multiple suppliers and customers.
- Developed new position at GM Supplier Quality Engineering. Position migrated across GM.

FREUDENBERG-NOK, Plymouth, MI

11/2000-8/2002

SR. MANUFACTURING ENGINEER, Corporate Technology Department (R&D).

- Designed and implemented novel process to assemble fuel cell stacks. Process utilized six sigma techniques, seals, clean room processing, die cutting, and delicate components.
- Process development for prototypes and new products.

PREVIOUS EMPLOYMENT

5/1992-11/2000

Continuous employment with titles of SR. MANUFACTURING ENGINEER and SENIOR PROCESS ENGINEER in the Automotive and HVAC electronics industries

- Became Lead Engineer on high volume PCB assembly line. Line achieved factory records for efficiency.
- Created and improved processes, tooling and procedures for potting, soldering and other processes.
- Assisted in the successful launch of production in Mexico. Designed and performed capability studies, refurbished and installed equipment, built tooling, trained staff and set up process.
- Inherited and resolved Chrysler's oldest open 5P in 3 months. Identified and eliminated root cause.
- Successfully transitioned plant from large quantity generator to notification only status with EPA.
- Reduced solder and solder paste material cost by over \$100k/year by qualifying second source.

OTHER ACCOMPLISHMENTS

- Expert in MS Office, MS Visio, Minitab and other software packages.
- Supervised engineers, technicians and hourly employees.
- Eliminated 75 tons per year of reportable airborne emissions. Project led to Environmental Award.
- Conducted training workshops.
- Presented papers on: No Clean Wave Soldering, VOC Free Conformal Coating.
- GM Certified CS2 Provider Quality Engineer (PQE), GM Drill Deep and Wide (DDW) Trainer.
- Senior member, American Society of Quality (ASQ).
- Elected to board of trustees for a non-profit with over \$1M budget. Past president of other non-profits.

EDUCATION

M.S. Chemical Engineering, Wayne State University, Detroit, MI

B. S. Chemical Engineering, Northwestern University, Evanston, IL

Six Sigma Green Belt. Completed Six Sigma Black Belt Training.

ASQ Certified Quality Engineer (CQE).

KEYWORDS

PCB Assembly/SMT Assembly

Process Equipment/Process

Gasket and Sealing Systems

QS 9000/TS 16949/ISO 9000

Demand Flow/Lean Processing

Design for Manufacturability (DFM)

Error Proofing/Poke Yoke

Potting/encapsulation

Design Coatings/Adhesives

Product Launch

Quotes/Bidding/Sourcing

6 Sigma

LIM (Liquid Injection Molding)

Continuous Improvement

Customer Service

Capital Justification

IPC Standards

Customer Quality

Supplier Development

Industrial Engineering

Kanban