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QUALITY MANAGEMENT SYSTEM
EXPERT WITNESS, TECHNICAL EXPERT

Medical, Aerospace, Automotive, Computers, Telecommunications,
Silicon technology, Energy / Power, Optics, Electronics, Electromechanical

Dr. Andrew J. Perry, P.E.

International

A. EDUCATION

(For Ashley U. details and verification, go to http://drandrewperry.com/pdf/dr-andrew-perry_PhD.pdf)

1. Ashley University, Los Angeles, CA (GPA 3.92). Ph.D. – Engineering Management, June 27, 2005
2. Ashley University, Los Angeles, CA (GPA 3.38). M.S. – Industrial Engineering, June 29, 1981
3. Ashley University, Los Angeles, CA (GPA 3.18). B.S. – Manufacturing Engineering, June 26, 1978
4. Johns Hopkins University, McCoy College of Engineering, Baltimore, MD. Toward BSEE
5. De Anza College, Cupertino, CA; City College Santa Barbara, CA. Nondestructive Testing, Reliability Engineering, Computer Science, Digital & Logic Circuits, State & Federal Law
6. U.S. Army Ordnance School, Officer Training Div. Aberdeen, MD. Industrial Engineering, Industrial Management, Production Management
7. School for ***Technical Experts and Expert Witnesses,*** Conducted by the *California Board of Registration for Professional Engineers,* Long Beach, CA

B. AFFILIATIONS

(For details click on links in website)

1. *International Electrotechnical Commission (IECQ),* Electronic Components Certification Corporation
   USNC/IECQ ECCC-IAB Member, Technical Review Board, Lead Assessor
2. American Society for Quality (ASQ)
   Fellow Candidate/Senior Member; Instructor; Auditor
3. Calif. Board of Registration for Prof. Engineers
   Registered Professional Quality Engineer (PE);
   Technical Expert for *Examination Development Unit;*
   Technical Expert for *Enforcement Unit*
4. National Society of Professional Engineers (NSPE)
5. San Francisco Bar Association (SFBA)
   Technical Expert, Expert Witness
6. San Francisco Bar Association (SFBA)
   Technical Expert, Expert Witness
7. University of Calif., Institute for Social Research
   Technical Expert - Requirements for Licensed Engineers
8. RABQSA International
   Certified Lead QMS Auditor
9. British Standards Institute (BSI)
   Lead Auditor; Instructor
10. Quality Digest
    Consulting & Training

C. OBJECTIVE

Quality Management System Expert Witness and Technical Expert for AS 9100/ ISO 9001/ 16949/ 13485/ FDA-QSR-cGMP/ CMDCAS Quality Management Systems, including Continuous Improvement, Validation/ Revalidation Programs, Quality Audit Programs (internal and external), Corrective/ Preventive Action Systems, Document Development, Implementation and Control functions, and Engineering/ Technical Program/ Project Management activities.

D. ACCOMPLISHMENTS

1. **Trimedyne, Inc**., Lake Forest, CA (12/2010-Present)

   Product: Surgical lasers, Holmium products, surgical fibers, handpieces and laser accessories
   Position: ISO 13485/FDA/CMDR/MDD Consultant
   Action*:* On-going internal audit of the quality management system and two technical files

2. **Integrated Composites Inc. (ICI)**, Marina, CA
   Position: AS9100-C Consultant
   Product: design, development, and manufacturing company specializing in high-performance structures and assemblies for aerospace, defense, and industrial applications.
   Problem: Lacking complete QMS Internal Audit to the AS9100 Rev. C with major customer and registrar audits imminent.
   Action*:* Conducting complete QMS Internal Audit and identification of corrective action requirements.
   Results*:* Certification obtained O n-going.

3. **Evans Analytical Labs, RTP Div.**, Santa Clara CA
   Position: ISO 9001 / 17025 Consultant
   Product: Design, development, and reliability testing services for product qualification.
   Problem: ISO 9001:2008 initial certification within 9 months, lacking QMS documents and implementation.
   Action*:* Creating Quality Manual, procedures and forms as needed, and conducting complete QMS Internal Audit.
   Results*:* Certification obtained.

4. **Digi-Com Electronics,** Richmond, CA
5. **Quality Circuit Assemblies**, San Jose, CA
6. **EMED Technologies**, El Dorado Hills, CA
   Position: ISO 13485:2003/ FDA Consultant
   Product: Printed circuit assemblies and equipment for all industries.
   Problem: ISO 13485: 2003 initial certification within 6 months, lacking complete QMS Internal Audit.
   Action*:* Revised Quality Manual, created procedures and forms as needed, and conducted complete QMS Internal Audit.
   Results*:* Completed on time; registration obtained.

7. **Vital Wear, Inc.,** South San Francisco, CA
   Position: ISO 13485:2003/ FDA/ CMDR/ MDD/ Consultant
   Product line: Thermal/compression systems for use in managing chronic pain and accelerating the recovery from injury.
   Problem: ISO 13485: 2003 initial certification within 6 months, lacking complete QMS Internal Audit.
   Action*:* Revised Quality Manual, created procedures and forms as needed, and conducted complete QMS Internal Audit.
   Results*:* Completed on time; registration obtained.

8. **Focus Diagnostics, Inc.,** Cypress, CA
   Focus Laboratory Services, Cypress, CA
   Position: ISO 13485:2003/ FDA/ CMDR/ MDD/ Consultant
   Product: Advanced Healthcare
   - Reference Laboratory
   - Diagnostics Products
   - Clinical Trials

   Problem: (Similar to Biosense Webster below) Corporation certified to ISO 13485:2003. Registrar Assessment scheduled the following week. Extensive organizational changes and key positions vacant causing doubt as to whether company was still compliant.
   Action: In 3 days, performed Gap Analysis which (1) Reviewed *documented* Quality System and submitted recommendations for changes. (2) Assessed all departments and recommended Corrective Actions, (3) Conducted Closing Meetings for each of the above facilities to provide ISO 13485 QMS training to Senior Management to identify major nonconformances detected that day, and recommend effective corrective action, (4) Conducted ISO 13485 Orientation Classes with all management and professional personnel.

   Results: Passed TUV Assessment and recertification, and received an annually-renewable contract to plan, conduct and report company-wide Internal Audits and review proposed corrective actions.

3. **Invitrogen, Zymed and Caltag Laboratories**, South San Francisco, Burlingame, Camarillo, CA.
   Position: *ISO 13485:2003 / FDA cGMP/QSR Consultant*
   Product line: Manufacture of RUOs, ASRs and IVDs and ancillary GPRs), majority of products antibody based with applications in IHC and Flow Cytometry.
   Problem: Corporation certified to ISO 13485. (1) Recently acquired Caltek Labs, Burlinggame, CA and Zymed Labs, S. San Francisco, CA and is undergoing relocation to S. Cal. (Camarillo); Registrar Assessment scheduled next month to cover all locations which have had extensive organizational changes. Some key positions are still vacant. (2) Various system problems detected by FDA on last inspection still unresolved. (3) There are currently no Internal qualified Auditors capable of detecting underlying problems and recommending fixes.
   Action: In progress. Currently reviewing *documented* Quality System and submitting recommendations for changes as well as procedures to assure successful relocation with minimal cost and schedule impact.
   Results: Anticipate Company being able to revise QMS documentation and deploy effective implementation in time to pass scheduled ISO 13485 Registrar Assessment and satisfy FDA findings in time allotted (30 days).

9. **Biosense Webster, Inc.** (Johnson & Johnson) Irwindale (LA Area), CA and Juarez, Mexico.
   Position: *ISO 13485:2003/ FDA/ CMDR/ MDD/ Pre-BSI Consultant*
   Product line: Advanced diagnostic and therapeutic electro-physiological catheters, and 3-dimensional, real-time cardiac color-coded mapping, navigation and ablation systems.
   Problem: Similar to above. Corporation certified to ISO 13485:2003. Registrar Assessment scheduled next month. Extensive organizational changes and key positions vacant. Internal Audits not conducted per the Standard due to the Internal Audit Manager's leaving without notice.

Action: In 2 weeks, (1) Reviewed *documented* Quality System and submitted recommendations for changes. (2) In the absence of qualified internal auditors, planned and conducted complete ISO 13485/ CMDCAS/ FDA QMS Assessment of all departments and Executive Management, and recommended Corrective Actions, (3) Conducted daily wrap-up meetings to: a) provide ISO 13485/ CMDCAS QMS training to Senior Management to identify major nonconformances detected that day, and recommend effective corrective action.

Results: Irwindale failed their BSI Assessment and was going to lose their ISO certification, which would have resulted in losses of millions of dollars in sales in Canada and Europe. The BSI Lead Assessor knew of me and knew I was in the plant at that time finishing my audit. Upon receiving my report, BSI advised the Company to implement all my recommendations and they could retain their ISO certificate. As a result, they also asked me to audit Juarez, which will be completed next month.

10. **Intuitive Surgical, Inc.,** Sunnyvale, CA.

Position: *ISO 13485 / FDA cGMP/QSR, MDD and CMDCAS Consultant*

Product line: State-of-the-art "Intuitive" Motion Enhanced 3-D Vision Laparoscopic Surgical Robotic Surgical Systems.

Problem and Action: Same above except that it was the VP of Quality who left.

Results: Company passed the ISO and subsequent FDA audits.

11. **SurgRx , Incorporated**, Palo Alto, CA.

Position: *ISO 13485 / FDA cGMP/QSR, MDD and CMDCAS Consultant*

Product line: State-of-the-art Electronic/Electro-mechanical Rapid Vessel Sealing and Transection Hemostasis Systems

Problem: Start-up, pre-IPO Corporation desiring certification to ISO 13485:2003 and a system compliant with *FDA cGMP/QSR, MDD and CMDCAS*. ISO Registrar Assessment and FDA Inspection scheduled next month. Quality Management System had not be fully documented.

Action: In 2 weeks, (1) Reviewed *documented* Quality System and submitted recommendations for changes. (2) Created a detailed Risk Management System Audit Checklist, (3) Created an Audio-Visual PowerPoint Presentation on CD of the requirements for implementing ISO 13485:2003 which was distributed world-wide. (4) Received a referral to the above company after assignment completed.

Results: Received a referral to the above company after assignment completed.

12. **Int'l. Remote Imaging Sys., Chatsworth, CA**

Position: *ISO 13485/ FDA/ cGMP/ QSR/ CMDCAS Consultant*

Product line: Remote imaging systems for medical diagnosis and surgery.

Problem: Company certified to ISO 9001:1994. ISO 13485/CMDCAS Registrar Certification Assessment scheduled next month. Internal Audit conducted month previous with no findings detected. New QA Director convinced (1) numerous undetected system problems existed, and (2) internal auditors not capable of finding problems. (3) Senior management gave QA Director 2 weeks to a) train auditors, b) find all significant problems, and 3) implement adequate corrective action.

Action: In 2 weeks, (1) Reviewed *documented* Quality System (Level 1 and 2 documents) and submitted recommendations for changes. (2) As internal auditors were in name only and totally unqualified, planned and conducted complete ISO 13485/CMDCAS QMS Pre-Assessment and recommended Corrective Actions, with internal auditors observing. (3) Conducted daily wrap-up meetings to: a) provide ISO 13485/ CMDCAS QMS training to Senior Management and internal auditors, b) identify major nonconformances detected that day, and recommend effective corrective action. (4) Trained and certified auditors to ISO 13485 and ISO 19001.

Results: Company able to revise QMS documentation and deploy effective implementation in time to pass scheduled ISO 13485/CMDCAS Registrar Certification Assessment. Received referral for subsequent consulting assignment from QA Director.

13. **Applied Materials/AKT**, Santa Clara, CA.

Position: *ISO 9001 Program Director*

Product line: Capital Equipment For Manufacture Of Flat Panel Displays.

Problem: Corporate requirement for all 15 business units world-wide (who commenced 3 months previously with full staff) to implement ISO 9001 and be registered in 14 months.

Action: With only one assigned assistant, developed aggressive, comprehensive "catch-up" plan, established and implemented ISO 9001ahead of schedule.

Results: Received ISO 9001 Certification ahead of 5 other business units. Received Plaque and Letter of Commendation from President and Executive Staff sent world-wide, mentioning above problem and solution (see attachment ***Refs.doc,*** pages 11 and 26).

14. **NASA/Ames Research Center**, Mountain View, CA.

Position: *ISO 9001 Advisor and Lead Auditor*

Problem: Majority of client personnel were Civil Service Management or Ph.D. researchers not in agreement with ISO management and organizational concepts and controls.

Action: Developed ISO 9001 QMS in three Directorates. Performed Pre-Assessment 3 months before Certification date which detected 48 *Major* Nonconformances and indicated severe lack of implementation. Vigorously worked to attain required implementation.

Results: NASA/Ames passed their certification audit without one *Major* Nonconformance. Received Letter of Commendation from NASA Center Director and ISO Program Director.

15. **G.E. Nuclear Energy Business Operations,** San Jose, CA.

Position: *Technical Program Manager,*

Problem: Numerous complex, critical technical and commercial issues at 12 client Nuclear Power Plant sites.

Action: Coordinated with various company and customer engineering organizations.

Results: Resolved all issues. Client plants continued operation with minimal schedule-impacts, redesign efforts and parts procurement expenditures. Received Letters of Commendation from different Program Directors. Client plants continued their excellent business relationships with G.E.

16. **Bunker Ramo/Amphenol, Nuclear Products Div.**.
Position: *Sr. Proj. Engr.,* reporting to VP Eng.
Problem: *Due date passed* for qualifying Reactor Penetration Assemblies for seven client Nuclear Power Plants and design effort had not commenced for this program. Subsequent agreements made to concurrently qualify *all* client product requirements in 6 months with limited budget ($1.5M).
Action: (1) Choose select group of design specialists (mechanical and electrical engineers, technicians and draftsmen) designated “Tiger Team”; (2) direct their design activities; (3) coordinate with Nuclear Regulatory Commission, Architects and Engineering firms, Utilities, and other in-plant Departments; (4) qualify, approve and supervise outside test facilities; (4) design and supervise construction of remote control test facility adjacent to main plant to perform special combinations of tests under unique environmental conditions.
Results: Qualified two Reactor Penetration Assemblies as "worst case" configurations representing all customer requirements ahead of schedule and within budget. Received numerous Letters of Commendation from all departments. Client plants continued their excellent business relationships with *Bunker Ramo/Amphenol*.

17. Reactor Systems, Sunnyvale, CA
Position: Sr. Q.A. Project Engineer, G.E. Advanced
Problem: Make up lost time (5 months) for procurement, manufacture, shipping and installation of Steam Generation and Intermediate Heat Transfer (Sodium) Systems for Clinch River FAST BREEDER REACTOR PLANT.
Action: Directed supplier, in-plant and site activities/customer coordination.
Results: Assigned plant systems were first to ship to site, one month ahead of time. Letter of Commendation and article/photo in local newspaper.

18. Honeywell Aerospace, Instruments Div., Minneapolis, MN
Position: Sr. Q.A. Project Engineer
Problem: Delays in production and delivery, and high customer return rate for critical SPACECRAFT INDICATORS AND METERS.
Action: Prepare and issue Quality System Plan, Quality Program Plan and supporting QMS documentation. Assessed controls for design, suppliers, production, special processes, personnel qualification, final acceptance and noted deficiencies. Choose select group of Design and Manufacturing Engineers to participate with me as Chairman of "Blue Ribbon Committee" to assure corrective action for systemic product problems and act as MRB, Failure Analysis Board, and First Article Engineering Analysis/Design Review.
Results: Received numerous Letters of Commendation from all departments. Offered permanent job as Sr. QA Project Engineer.

19. General Electric, Television Division, Syracuse, NY
Position: Operations Consultant,
Problem: Delays in production and delivery, and high customer return rate for COLOR TV CONSOLES.
Action: Analysis of design, production and quality systems. Created detailed comprehensive system flow chart.
Results: Recommended specific additions, deletions and revisions of process steps to increase production yields, quality levels, field reliability and customer satisfaction at lower costs. Offered permanent job as Sr. QA Project Engineer.

E. SUMMARY

Experience in a variety of product lines includes (1) developing relationships with key customers, (2) determining customer expectations and assuring implementation company-wide (3) setup and direction of Customer, Quality, Reliability, Design, Manufacturing, Crisis Management, Continuous Improvement activities, (4) setup of global customer feedback systems working in an international environment, including the European and Asian Market, (4) establishing corporate strategic plans and objectives to exceed customer requirements.

Able to (1) provide expeditious assembly and analysis of information and reporting on progress, (2) perform comprehensive evaluation (gap analyses) of business processes, direct problem solving and continuous improvement activities, (3) teach, organize and manage cross-functional teams, (4) build consensus and communicate clear objectives and goals. Proficient in MS Office and MS Project. Excellent bilingual written and verbal communication skills in English and ***Spanish***.

F. QUALIFICATIONS

Currently consulting, developing cost-effective world-class Quality Management Systems utilizing IS0 9001/13485 to assure "Customer Delight: by providing: (1) guidance to marketing, design, manufacturing and quality for improving the effectiveness and efficiency of internal processes, (2) globally recognized set of criteria to assess the quality systems of suppliers and demonstrate compliance of the internal quality system to customers, and (3) system for providing continuous improvement and customer delight. Have excellent working relationship with various ISO Registrars.

Oversight of the following functions:

1. **Risk Management.**
   a. Performing the following types of analyses:
      - Hazard Identification (HA) and Fault Tree Analysis (FTA)
      - Failure Modes and Effects Analysis (FMEA and FMECA)
      - Hazards and Critical Point Analysis (HACCP)
      - Human Factors
   b. Establishing and implementing:
      - Risk Management Systems per ISO 14971 and applicable cGMPs (QSRs)
      - Risk Management Files (RMF)
      - Software Risk Management

2. **Reliability Engineering.**
   Preparation of Reliability Plans, constructing Math Models, performing Reliability & Maintainability predictions, establishing data collection, analysis and reporting systems.

3. **Document Control.**
   Preparation and issuance QA Plans and Manuals, Inspection/Test/QE procedures, material/ documentation systems.

4. **Traceability Control System.**
   Establishing and monitoring traceability systems.

5. **Inter-functional oversight.**
   MRB, failure analysis and design review meetings. Interdepartmental, customer, FDA and Registrar coordination.

6. **Design and Development Control.**
   Establishing design configurations and qualification tests. Calibration and laboratory test functions. Design of special test equipment and laboratory facilities. Component analysis, product/value engineering, and electrical, mechanical, material, environmental, nondestructive and destructive tests.

7. **Supplier Control.**
   Supplier qualification surveys, periodic audits, and source inspection/test activities.

8. **Process Control.**
   Evaluations of capabilities for special processes and personnel qualifications.

9. **Facilitating *Project Management* Success**
   Project Management and Team tools.

G. EXPERIENCE

03/1994 - Present
Expert Witness and Technical Expert
1. ***California listings for:*** *Northern California, San Francisco, Sacramento, Bar Associations, Association for Defense Counsel*
2. ***National listings for:*** *Expert Witnesses and Technical Experts (Consolidated Consultants Corp., San Diego)*

- Application of AS 9100/ ISO 9001/ 16949/ 13485/ 14971 standards, FDA QSR-cGMP (U.S.), CMDCAS (Canada), MDD (Europe) and PAL (Japan) regulations
- Engineering / Technical Program / Project Management activities
- Investigative process, case review procedures, report preparation containing expert opinion; providing depositions and court testimony
- Coordination with Office of District Attorney General

Provided Expert Testimony in: 1) Indiana Superior Court; 2) Ohio Superior Court; California Superior Court ; and 4) Missouri Circuit Court. (authorization letters for these litigations provided upon request)

09/2002 - Present	**British Standards Institute (BSI),** Reston, VA	*Lead Assessor and Instructor (External Resource)*

(1) Leading and conducting third-party Registrar ISO 9001/ 13485 QMS Certification audits.
(2) Conducting public and on-site seminars for RAB Certified ISO 9001/ 13485/ 19011 Lead Auditor, and courses including implementation of ISO 9001/ 13485/ 14971 Quality Management Systems.
Received Commendations from the Vice President and President of BSI.

04/2009 - Present	**ABS Quality Evaluation Registrar,** Houston, TX	*ISO Lead Assessor*

1. Conducting third-party Registrar Certification Assessments to global standard ISO 9001:2000.

- 2009-04-07 Bara Infoware
- 2009-07-28 TechRef
- 2009-09-02 Streamline Tech
- 2009-10-20 TTI-Tech MikeJackson
- 2009-11-10 KIE-CON

02/2006 – Present	**Marion Weinreb & Associates**, San Francisco, CA	*Associate and Supervising Assessor*
05/2010 - 05/2011	**Ethicon, Johnson & Johnson,** Somerset, NJ	*Lead Contract Supplier Auditor*
05/2011 - Present	**Medpoint, LLC,** Greenville, SC	*Lead Contract Supplier Auditor*

Conducting audits of suppliers certified to ISO 9001 / 13485 and FDA-GMP-QSR and approving corrective action plans.

- 2010-09-06 Minitubes, France
- 2010-09-16 Hoosier Springs, IN
- 2010-11-16 Needletech, MA
- 2010-11-17 Lacey, CT
- 2010-12-02 Steven Label, CA
- 2010-12-07 Pacific Rubber, CA
- 2010-12-08 NuSil, CA
- 2010-12-15 Trimedyne
- 2011-03-15 FzioMed, CA
- 2011-03-23 Dako-Acerna
- 2011-03-17 Applied Silicon, CA
- 2012-05-15 Zefon, Tijuana, Mex.
- 2012-09-10 NSL, Cleveland
- 2012-11-28 Trimedyne

10/1977 – Present	**New World Consulting Service (NWCS),** Northern & Southern, CA Offices	*President*

Developing cost-effective world-class Quality Management Systems at the FOLLOWING client companies, acting company position/title indicated. Received *various Letters of Commendation*. All positions
- Were at the Executive level reporting directly to the President.
- Required the original set up, company-wide coordination, and implementation of the Quality System.
- Included customer coordination.

Also see ACCOMPLISHMENTS section:

1. DIRECTOR, QUALITY & RELIABILITY ASSURANCE, Lucas NovaSensor, Fremont, CA
Product lines: ASICS, PCBAS, Fluidic And Optic Sensors And Silicon Microstructures for AUTOMOTIVE, MEDICAL, COMPUTER, COMMUNICATIONS, and INDUSTRIAL APPLICATIONS.

2. DIRECTOR, QUALITY ASSURANCE, G. Hartzell & Son, Concord, CA
Product line: DENTAL INSTRUMENTS.

3. DIRECTOR, QUALITY ASSURANCE, Huntington Mechanical Labs, Mountain View, CA
Product line: AEROSPACE VACUUM PRODUCTS AND PROTOTYPE MECHANICAL ASSEMBLIES.

5. DIRECTOR, QUALITY ASSURANCE, Shin-Etsu Polymer Corp., Fremont, CA
Product line: MEDICAL AND AUTOMOTIVE INSTRUMENT PANELS.

6. DIRECTOR, TQM/ISO PROGRAM, PULNIX America Corp., Sunnyvale, CA
Product lines: MEDICAL, SECURITY, VIDEO, PHOTOELECTRIC CONTROLS and INSTRUMENTS.

7. DIRECTOR, QUALITY ASSURANCE, National Nuclear Corp., Sunnyvale, CA
Product lines: MEDICAL, SECURITY, RADIATION MONITORING EQUIPMENT and INSTRUMENTS.

8. DIRECTOR, QUALITY & RELIABILITY, OmniTel, Inc., Fremont, CA
Product line: MODEMS.

9. DIRECTOR, QUALITY & RELIABILITY, TIW Systems, Inc., Sunnyvale, CA
Product line: AEROSPACE SATELLITE ANTENNA SYSTEMS and TELECOMMUNICATIONS EQUIPMENT.

Other Consultant Positions (Also see ACCOMPLISHMENTS section)

1. ISO-9001 ADVISOR & LEAD AUDITOR
NASA Ames Research Center
Moffett Field, CA
Product line: MEDICAL and AEROSPACE RESEARCH
Direction of policy and procedure development/implementation and executive management coordination of ISO-9001 activities. ISO certification obtained with NO findings encountered during the Registration Audit. Received *Letter of Commendation from the Center Director and ISO Program Director.*

2. TECHNICAL PROGRAM MANAGER
G.E. Project Engineering Operations
San Jose, CA
Product line: BWR NUCLEAR POWER PLANTS
Responsible for technical program and management focus for critical engineering issues with sub-contractors, customers (plant site), and GE engineering groups. Heavy customer involvement. Received *Letters of Commendation.*

3. QUALITY ENGINEERING CONSULTANT
Intel Corporation
Santa Clara, CA
Product line: MICROCOMPUTER MEMORY SYSTEMS, WORKSTATIONS, AND PERIPHERALS
Set up and direction of Quality Engineering, Inspection and Test activities relative to procurement of parts/ assemblies and OEM products (power supplies, disc drives, PCB's, etc.), in-process manufacturing/ assembly/ shipping functions. Coordinating transfer of staff, documentation and equipment to Puerto Rico plants for manufacture of new product lines (fluent Spanish required).parts/assemblies and OEM products (power supplies, disc drives, PCB's, etc.), in-process manufacturing/ assembly/ shipping functions. Coordinating transfer of staff, documentation and equipment to Puerto Rico plants for manufacture of new product lines (fluent Spanish required).

Direction of in-plant and site quality activities from procurement and throughout manufacture, shipping and installation of equipment. Heavy customer involvement and site coordination. Received *Letter of Commendation* and *article and photo in Newspaper.*

4. SR. Q.A. PROJECT ENGINEER
G.E. Advanced Reactor Systems
Sunnyvale, CA
Product line: Clinch River FAST BREEDER NUCLEAR REACTOR PLANT

5. SR. Q.A. PROJECT ENGINEER
Honeywell Aerospace, Instruments Division
Minneapolis, MN
Product line: SPACECRAFT INDICATORS AND METERS
Control of hardware, documentation and special processes. Chairman: MRB; Failure Analysis Board and First Article Engineering Analysis/Design Review.

6. OPERATIONS CONSULTANT
G.E. Television Receiver Division
Syracuse, NY
Product line: COLOR TELEVISION RECEIVERS
Analysis of production and Quality Assurance operating systems for the manufacture of large-screen TV receivers. Recommendation of improvements for providing increased production yields/quality levels and increased field reliability/customer satisfaction. at lower manufacturing costs

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H. PERMANENT DIRECT MANAGEMENT POSITIONS

10/1981 - 4/1985
QUALITY ENGINEERING MANAGER & MEMBER TECHNICAL STAFF
Memorex Communications Group
Cupertino, CA
Product line: COMPUTER PERIPHERALS(terminals, keyboards, printers)
Supervision of Reliability/Quality Engineers, and QC Inspection/Test personnel and suppliers. Domestic and international coordination. Directing/conducting management interdepartmental plant training program (SPC, Team-Building). Heavy supplier and customer involvement. Letter of Commendation.

04/76 - 10/77
SR. PROJECT ENGINEER
Bunker Ramo/ Amphenol
Nuclear Product Development
Chatsworth, CA
Product line: NUCLEAR POWER PLANT REACTOR PENETRATION ASSEMBLIES
Concurrent with the below position, direction of design activities. Coordination with Nuclear Regulatory Commission, Architects and Engineering firms, Utilities, and in-plant Departments. Qualification, approval and supervision of outside test facilities. Design of remote control qualification test facility adjacent to main plant. Heavy customer involvement. Various letters of Commendation.

04/76 - 10/77
QA LABORATORY DEPT. HEAD
Bunker Ramo/ Amphenol
Space & Missiles Systems Division
Chatsworth, CA
Product line: COMPLEX AEROSPACE CABLE/HARNESS ASSEMBLIES
Concurrent with the above position, direction of the Tool & Gauge, Electronics, and Mechanical/Materials/ Environmental Test Labs for support of R&D, production, and calibration. Coordinating with outside facilities for special tests. Heavy customer involvement.

10/71 - 04/76
PROJECT ENGINEER
Joslyn Electronics Systems
Santa Barbara, CA
Product line: SPARK GAPS, LIGHTNING ARRESTERS, OVER-VOLTAGE SURGE PROTECTORS
Design of special test equipment. Oversight of in-plant R&D, qualification, production tests, and special tests at outside facilities.