



RAY KALAHER
eireengr@gmail.com
1415 S. Olathe Way
Aurora, Co 80017
303.829.5064

About Me

I am an experienced Quality Department Specialist and Electro-Mechanical Production Professional with nearly twenty five years in the industry. I have worked on a diverse range of products and designs, from biomedical devices to light rail vehicles.

I have held all grades of positions in these fields, from assembler through technician even to engineering technician, giving me a breadth of knowledge not often found in our normally specialized industry.

In my free time I run a Science Education You Tube channel, enjoy bike riding and softball, and help out with my girlfriends art gallery.

07/2023 to 10/2024

Autocad Draftsman/Assembly Technician

JK Concepts

- Drafting in Autocad and Microvellum
- Produced production ready drawings for custom cabinetry, including conversion of architectural drawings, die walls, complex transaction tops, solid-surface and granite counter tops.
- Designed and laid out custom cabinet solutions using Microvellum
- Generated cut lists and CNC parameter files for automated production
- Constructed cabinets, toe kick supports, jigs, and countertops according to production drawings

10/2021 to present

Independent contractor ISO 13485 Lead auditor/ISO9001

- Performed system and process audits on facilities holding an ISO13485 certificate (Medical Device Quality Management Systems)
- Consulted on ISO9001 and OSHA requirements in a non-auditor capacity
- Consulted on compliance issues with ISO9001, ISO13485, and OSHA guidelines

9/2022 to 2/2023

Shift Lead

Sapp Brothers

- Lead a team of 5-7 cashiers and maintenance staff
- Performed and lead store audits
- Ordered Inventory in DAS, Sysco and CoreMark
- Evaluated employees customer service and provided feedback

4/2020 to 10/2021

**Quality Specialist
Molecular Products**

- Performed numerous quality administration tasks in an ISO9001, ISO 13485, and MDSAP environment, including:
- Certification as an ISO 13485 Lead Auditor. Performance of audit activities including auditing of processes and procedures, performance of effectiveness reviews, and auditing training proficiency.
- Managed the Calibration Documentation System, including scheduling calibration, maintaining records, and sending devices out for repair. Made significant improvements to the calibration documentation system.
- Managed the CAPA system, including assigning CAPA numbers, tracking the status of action items, performing effectiveness review and root cause analysis, and championed CAPAs in my department.
- Managed the Document Control system, including managing the database of documents and forms, editing documents for content, spelling and grammar, and documenting all changes and revisions.
- Managed the Change Order system. Assigned entries to the CO log, Routed Change Orders for approval, tracked the progress of implementation action items, championed change orders within the Quality department.
- Managed the training system, including maintaining the training log, maintaining records, and performing company wide training sessions in Quality related subjects.
- Implemented various quality improvements, including creation of new labels for various quality hold statuses using Adobe Illustrator. Made major improvements to several Access databases and Excel spreadsheets.

6/2019 to 3/2020

**Senior Production Technician
CME America**

- Assembly, repair, calibration, and diagnostics on high end medical devices
- Failure analysis, investigation, and corrective action determination for non conforming materiel and devices.
- Documentation of all processes per 13485 and GMP standards.
- Responsible for the calibration of all required equipment as well as all calibration documentation
- Managed record keeping of all tube sets and associated hardware
- Design, validation testing, and implementation of test fixtures
- and production jigs, using Solidworks, Altium, and additive manufacturing techniques.

1/2018-5/2019

**Process Technician/Quality Manager
RPC Manufacturing, Westminster Colorado**

- Direct Supervision of all processes related to the manufacture of Surface Mount and Thru Hole electronic assemblies, including:
- Re-flow Oven Profiling
- Wave Solder Profiling
- Selection of Solder Paste/Flux Components based upon chemical composition and environmental conditions
- Gerber File Evaluation and Design Approval
- ECO Generation and Alternate Component Selection
- Panelization of PCB Arrays
- Work Instruction And Training Document Creation
- Provided Technical Assistance to the Production Supervisor in the Form of Training of Personnel, Performance of Highly Technical Soldering Tasks, and Troubleshooting to Component Level of Completed Assemblies
- Creation of Forms and Documents Required to Perform Quality Tasks and Monitor Quality Performance.
- Performance of Duties as Quality Manager, including:
- Supervision of a Team of Quality Inspectors
- Managed the Calibration Documentation System, including maintaining records, calibrating devices on site, daily verification and challenges, and sending devices out for repair and calibration.

Continued

Continued from previous page

- Direct Inspection of Assemblies Under Magnification
- Establishment of an ISO Compliant Quality Management System
- Implementation of New Quality Inspection Points and Procedures
- Training of All Quality Personnel
- Training of new employees to IPC610, IPC-600, IPC-620 standards, including instruction in fine pitch device soldering and rework
- Implementation of a new Defective Material Reporting System to Track and Respond to Customer Returns and Vendor Defects
- Implementation of an ISO compatible Corrective Action system

4/2016-12/2018

**Gyroscopic Instrument Technician
Tri-County Instruments, Lafayette Colorado**

- Overhaul, Repair, and Test of Gyroscopic Aviation Instrumentation, Including Attitude Indicators, Directional Gyros, and Independent Navigational Aids
- Designed a MS Access Database for Tracking Work Order Information, as well as a Database for Keeping Track of all Parts in the Stock Room.
- Designed Test Fixture Equipment Using Solidworks, Altium, and C#
- Performed Quality Assurance checks on incoming parts, outgoing devices, and regulatory paperwork

3/2014-2/2016

Production Technician

Phoenix Test Systems, Phoenix Arizona

- Precision Mixing of Multi Component Conductive Silicone Mixes
- Filling Under Microscope Magnification of Fine Pitch Test Socket Arrays
- Production Operations Including Production Planning, Kit boxing, Organization, and Lead Operations
- Created Calculation Apps for Mixes in C#
- Assisted with Facilities Upgrades and Clean-room Maintenance
- Designed a New Test System Architecture in Solidworks and Altium
- Panelization of Silmat arrays for production using Autocad

8/2014-2/2016

CAD Modeling Technician/Shop Assistant

James Edwards Furniture, Phoenix Arizona

- Modeled existing furniture designs in 3d using SolidEdge and Solidworks to facilitate the rendering of photo realistic marketing materials
- In support of production operations operated dovetailing machines, planers, and CNC lathe during high volume periods

5/2011-3/2014

Engineering Technician

BDC Labs, Wheat Ridge, Colorado

- Constructed electro-mechanical assemblies for testing coronary artery stents and heart valves, including troubleshooting of electric actuators, ball screw drives, and control circuitry
- Built complex cable assemblies from prints, and prototype cable assemblies
- Designed and edited designs of mechanical assemblies and cables using Solidworks 2014
- Designed wire harness assemblies and jigs for construction
- Fabricated test system components using a high level of creativity and adaptability to solve complex problems
- Performed complicated experiments on medical devices for FDA submission, including tensile, natural frequency, burst, etc.
- Mixed test solution for various experiments including PBS, glycerin water mixtures, and dyes
- Calibrated sensors including Temperature, Pressure, Flow, Pin Gauges, and miscellaneous devices
- Performed complex statistical analysis of data
- Inspected parts using GD&T techniques using optical comparators, CMM, micrometers and calipers

Education

High School Diploma, John F. Kennedy H.S. Denver, CO, 1996

Basic Training; Ft. Jackson SC, 1996

U.S. Army Signal School Ft. Gordon, GA, 1997

Breath Alcohol Calibration Technician, Lifeloc Technologies Denver, CO, 2005

IPC-A-600 Certification, 2001

IPC-A-610 Certification, 2001

IPC-A-610 Trainer Certification, 2001

IPC-A-620 Certification, 2001

Solidworks Associate, 2014

Nordson Select Cerno-102IL Selective Solder Operations Technician, 2018

ISO 13484 Lead Auditor Certificate, Jan 2021