

# RAM HARI KHATRI K C

**13129 E 110<sup>th</sup> Ave, Commerce City, CO, 80022    Phone: 720-742-1063    Email: ramharikc13@gmail.com**

## **SUMMARY**

A Mechanical Engineer with 3+ years of experience in a medical device manufacturing company. Experienced in various mechanical and Process Control (PC) testing, experiments, engineering methods and analysis of data. Familiar with GMP and regulatory boards such as FDA (Food and Drug Administration), OSHA (Occupational Safety and Health Administration), 21 CFR part 820 - Quality System Regulations and ISO 13485 - Medical Device Quality Management System (QMS).

## **WORK EXPERIENCE**

### **TERUMO BCT, Lakewood & Littleton, CO**

**05/2024 – Present**

#### **Intern In-House Engineer (Graduate)**

- Re-designed existing burst test equipment for testing Rika channel and cassette.
- Performed Installation Qualification (IQ) and Test Method Validation (TMV) on the newly designed burst test equipment.
- Updated Inspection Procedure document for PC testing of channel to comply with the new burst test recipe and test procedures.
- Developed and released a new Job Aid “Cleaning Procedure of Kiefel Channel and Cassette Machine and Tray Loaders”.
- Participated on validation activities such as dry runs and IQ validation on both cassette and channel machines.
- Cross-Functional work with R&D to perform life test on Rika channels manufactured at various power settings and frequent discussions on implementation of engineering assumptions and calculations for development of burst test equipment.
- Assembled a Keyence Thickness Measurement System for cassette and created its electrical diagram and connections on AutoCAD.

**09/2023 – 05/2024**

#### **Operations Lead/D (FOT)**

- Supervised and led a team of disposable manufacturing to produce Trima/Optia cassettes in Autocell and Rika Separation Sets at Littleton ensuring the quality requirements are met.
- Coordinated with the production associates, warehouse associates, technicians, engineers, and supervisors to ensure workflow, quality products and maximum OEE adhering to department policies, procedures, regulatory compliance, and OSHA requirements.
- Opened and released regulatory work orders to start manufacturing, closed work orders, backflushed the products, generated product, and processed nonconformances for the batch that do not comply with manufacturing requirements.
- Assisted employees in conflict resolution, communicated associate’s performance and concerns to supervisor, motivated associates to meet daily target, and gave performance feedback.

**08/2022 – 09/2023**

#### **Senior Machine Operator**

- Provided and documented onboarding and refresher training for automation associates and machine operators following MOPs, EOPs, and departmental procedures in both cleanroom and controlled room environments.
- Retrained to quality issues, responded to retraining requests, trained on Process Control testing, and reported training activities to the leadership.

- Escalated quality issues, manufacturing issues, production discrepancies, and safety concerns to the leads and supervisors.
- Maintained GMP, GDP (Good Documentation Practices) and quality standards and contributed to NC (Non-Conformance) resolution.
- Participated in 6S assessments and implemented corrections, coordinated in machines and work area cleaning per approved procedures, adhered to safety and cleanliness policies and recommended solutions to safety concerns and ergonomics.

**01/2022 – 08/2022**

**Mfg. Machine Operator**

- Operated Kiefel automation equipment to produce Channels and Soft Cassettes and ATS automation equipment for AC Spike with Cap Assembly, Donor Assembly, Plasma Collection Subassembly, Plasma Coil Assembly, Loop Assembly and Final Assembly to build Separation Kit.
- Performed Process Control testing and burst testing, product inspection, packaging, and labeling adhering to GMP compliance and following approved production procedures and documents.
- Escalated quality and safety issues, production processes and raw material issues to the leaderships that helped in process validation phase.
- Followed protocols and procedures to manufacture products and performed various tests.

**WANCO INC., Arvada, CO**

**07/2021 – 01/2022**

**Assembly Technician**

- Assembled solar panels of varying specifications creating a solar array with adjustable tilt and folding options thus optimizing solar charging.
- Built solar integrator trailer, hybrid solar integrator trailer, and mini solar integrator trailer for solar surveillance systems. Built small-frame camera trailers used as traffic solar surveillance system, message sign camera system and camera system for public safety to monitor the traffic and event crowds.
- Performed preventive maintenance of the trailers and solar panel electrical components and assisted Lead technicians on corrective maintenance and address customer complaints.

**UNIVERSITY OF CENTRAL OKLAHOMA, Edmond, OK**

**08/2018 – 12/2019**

**Graduate Research Assistant**

- Developed a versatile and realistic CAD model of trabecular bone that is morphologically and mechanically accurate for representing low density and osteoporotic jawbone.
- Synthesized a filament composite (ABS, Buna-N, and Glass Fiber) for Fused Deposition Modeling of such trabecular bone.
- Improved the existing compression test equipment and related test fixtures and developed test procedures to study mechanical property of 3D printed Gyroids.
- Developed a versatile and realistic CAD model of screw-type implant that bears geometrical features in a commercially available dental implant.
- Used FEA to identify key geometrical features within the implant design that favor uniform transfer of occlusal load between implant and patient-specific trabecular bone.

**BHERI TECHNICAL SCHOOL, Nepalgunj, Nepal**

**01/2015 – 12/2016**

**Mechanical Instructor**

- Conducted skills development program, evaluated performance through skill assessments and recommended improvements to enhance effectiveness.

- Updated the curriculum and teaching methodology to improve educational outcomes and performance standards.
- Provided theoretical knowledge on Engineering Drawing, Applied Mechanics, Workshop Technology and AUTOCAD. Demonstrated skills related to such subjects and provided hands-on training.

## **EDUCATION**

University of Central Oklahoma, Edmond, OK (2020)

Master's in Mechanical Engineering

Kathmandu University, Nepal (2014)

Bachelor's in Mechanical Engineering

## **SKILLS**

- Knowledge of AutoCAD, SOLIDWORKS, 3D Printing, schematics and technical drawings.
- Proficient in Microsoft Office Suites such as Word, Excel, PowerPoint, Minitab and other PC software applications.
- Skilled in reading HMIs on ATS Machines, Kiefel Machines, Injection Molding Machines.
- Frequently use Windchill, Learning Management System (LMS), System Applications and Products in Data Processing (SAP), Manufacturing System (MES), and Illuminate.
- Experienced in various Process Control testing, Hydraulic Burst Leak Test (HBLT), Lab Works, Mechanical Testing, Mechanical Tools and Equipment, Power Tools, Rotating Equipment.
- Knowledge of statistics and statistical tools such as MATLAB, excellent on creating data visualization such as charts & graphs through MS Excel.
- Knowledge of Injection Molding, RF Welding and Solvent Bonding Procedures.
- Ability to communicate on Nepali, Hindi, and English language both verbally and in writing.
- Course work on advanced mathematics, hydraulics, metrology, fluid dynamics, material science, electronics, chemistry, biology, and physics.
- Experienced in Lean Manufacturing product environment for both clean room and controlled room.

## **REFERENCE**

Available upon request.