

EDGAR SALAZAR

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OBJECTIVE

Bilingual Mechanical Engineer with a demonstrated history of working in the Medical Device and Biotechnology industries within a New Product Development environment. Skilled in Manufacturing, Product Sustaining, Structured Problem-Solving Techniques, and Equipment Troubleshooting. Currently pursuing a Master of Science Degree in Biotechnology.

EXPERIENCE

AUG 2017 – PRESENT: ILLUMINA – NPI MANUFACTURING TECHNICIAN III

PROJECTS: NextSeq™ 1000/2000, TruSight™ NIPT Reagent Cartridge, iSeq™100

- Supported Process Development Engineers by performing pilot build activities including laser welding, final assembly, reagent filling and functional testing.
- Supported Process Development Engineers by executing DOEs, Design Verification Tests, Gage R&Rs, IQs, IOQs, PQs, and PPQs during product development, process validation and production transfer phases.
- Onboarded, maintained and operated complex automated liquid handling robotic systems and instruments to manage product through a highly automated manufacturing workflow.

FEB 2017 - AUG 2017: D&K ENGINEERING – MECHANICAL ENGINEERING TECHNICIAN III

PROJECT: BIONESS Vector Gait and Safety System™ – Body weight support system designed to accelerate physical rehabilitation of patients with balance impairment.

- Set-up testing equipment to conduct experiments, troubleshooting functions, fault isolation and repairs.
- Supported Manufacturing Engineering by updating SOPs, Bill of Materials and DHRs through ERP System.
- Performed EOL product quality inspections based on customer's quality metrics checklist and implemented corrective/preventive actions from CAPA plans.

FEB 2014 - FEB 2017: D&K ENGINEERING – MECHANICAL ENGINEERING TECHNICIAN II

PROJECT: HOLOGIC Tomcat™ - Automated, cLLD technology-based instrument for pre-analytical processing of liquid cytology samples.

- Worked from schematics, diagrams, engineering specifications and guidelines to perform EOL parametric testing.
- Assisted Software Validation Engineers on execution of change validation protocols.
- Supported Manufacturing Engineering by setting up production line for FRUs and RMAs, and processing orders from spare parts procurement, troubleshooting, component level fault isolation to repairs.

DEC 2010 - NOV 2013: PRODUCT SUSTAINING ENGINEER, CUSTOM SENSORS AND TECHNOLOGIES

PROJECT: Family of production lines for Low Pressure Capacitive Sensors.

- Product design responsible with respect to drawing specifications, bills of materials and test, durability, and performance specifications.
- Supported Manufacturing Engineering and Quality Engineering by implementing Engineering Change Requests and updating DFMEA documentation based on production line throughput improvements, cost saving initiatives and customer requirements.
- Created and executed Design Verification Plan and Reports (DVP&Rs).
- Conducted root cause analysis utilizing structured problem-solving techniques.

ACCOMPLISHMENTS

- Successfully executed NIPT Reagent Manufacturing PPQ protocol within an interdisciplinary team effort.
- Successfully executed Hamilton™ STARlet micro pipetting robot IOQ validation protocol for NPI Reagent Consumables Manufacturing line on a timely manner.
- Key role player on multidisciplinary onboarding project of 45 pieces of Manufacturing Equipment for NPI Reagent Consumables Manufacturing Line.

EDUCATION

- AUG 2019 – PRESENT: PROFESSIONAL SCIENCE MASTER’S DEGREE IN BIOTECHNOLOGY, CALIFORNIA STATE UNIVERSITY SAN MARCOS. SAN MARCOS, CA.
- AUG 2002 - JUN 2007: AGRICULTURAL MECHANICAL ENGINEERING, B.S., CHAPINGO AUTONOMOUS UNIVERSITY. CHAPINGO, MEXICO.

OTHER TRAINING

- Shainin Problem Solving Strategies in Manufacturing, Shainin LLC.
- Design Failure Mode and Effects Analysis Fundamentals, Integrated Training Resources.
- Geometric Dimensioning and Tolerancing per ASME Y14.5.2, Integrated Training Resources.
- Analysis and Characterization of Failures on Plastics, Center for Research on Applied Chemistry.

COMPUTER SKILLS

- Microsoft Office Suite™
- Minitab™
- SAP™, Camstar™, EAM™
- Solidworks™