
ENGINEERING PROFILE: Technical professional with diversified state-of-the-art engineering experience. Skilled in the principals and concepts of Six Sigma; and the systematic implementation of LEAN - Manufacturing of medical devices under strict FDA federal regulation. Expertise in the development of engineering solutions to satisfy product unit assembly and automated test, and process validation under engineering change control approval to satisfy design, and quality standards that are required to produce and service medical devices for the Health Care industry. Knowledgeable of creating and presenting process control charts using Microsoft Excel & Power Point software to analyze yield and trend data that impact productivity, quality, and cost in a manufacturing operation. Training include value stream mapping technique of a product work flow activity during pre-Kaizen event; and conducting in-depth product studies to stream-line an operation. Proficiency in writing assembly and test procedures using Microsoft Word; and knowledgeable of creating input scripts; data base file management utilizing Microsoft Access. Work independently, or with a team to evaluate project risk factors and make clear decisions that affect productivity, and cost.

KEY QUALIFICATIONS

- Printed Circuit Board Manufacturing
- Telecommunication Network Switching Systems
- Xerox High Speed Copying Machines
- Toner (Dry Ink) Manufacturing
- Hospital Surgical Equipment Manufacturing and Test
- Aircraft Navigational Electronics
- Pressure & Flow Instrumentation
- 4KV High Voltage Switching & Substation Control
- PLC , DCS, & HMI Programming
- Unix Programming
- Microsoft Office Products
- C & C++ Software Programming
- Micro Chip - Pic Programming Language
- Statistical Quality Control
- 3 Phase Brushless DC Motor Control Circuit Design
- LEAN Manufacturing Techniques
- Quality/Process Improvement Initiatives
- Contingency Planning & Problem Solving
- Strategic Planning
- Preventative Maintenance Program
- ISO9001:2000+aS9100,MIL-Q-9858-A
- IPC 7711/7721,ANSI/J-STD-001 9002
- TUV, UL
- Electronic Circuit with P-Spice Modeling and Simulation

KNOWLEDGEABLE OF:

Program development utilizing C++ and Unix software for embedded process controls. Functional with the SAP Software system in development, release and sustainment of electronic devices and equipment, ISO standards, digital and analog circuit design. Utilization of SAP for engineering change order approval of AutoCAD and Solid Works drawings. Skills include Telecommunication Network Switching System hardware and software, Aircraft Ground to Air Navigational equipment, Xerox Toner production and paper document copier manufacturing.

PROFESSIONAL EXPERIENCE

Background includes the following diverse positions that have laid a strong foundation of personal and professional growth. Acquired the best technical and supervisory experience available, meeting the highest standards of performance and developing a proud work ethic that offers a potential employer a highly trained, dedicated employee. **Career success and selected accomplishments include, but not limited to the following:**

MANUFACTURING ENGINEER II, Smith & Nephew Inc., Oklahoma City, Oklahoma

1998 to Present

Manufacturing Engineer for medical equipment manufacturer. Provided support to the manufacturing shop in the implementation of LEAN manufacturing principals and concepts to several manufacturing product lines. As team member, assigned to several project teams for the Focus Control Factory for new product development.

KEY RESULTS:

- Increased productivity by a total of 35% for three product lines
- Implemented counter measures to Shaver Control unit assembly line - increased RTY by 25%
- Initiated release of capital budget spending to purchase mold tooling for electro surgical generator unit. Tooling projected to yield a sizable cost savings over the next five years for the product line

Continued...

LEROY HARRIS ~

11100 NORTH FLORIDA AVE ~OKLAHOMA CITY, OK 73120
405. 755-2080 ~ HARRISLERROY@SBCGLOBAL.NET

SENIOR PROCESS ENGINEER, Xerox Corporation, Oklahoma City, Oklahoma

1992 TO 1998

Process engineer with the Extruded Toner manufacturing plant with an annual production of five million pounds of dry ink products (Toner).

KEY RESULTS:

- Supervised twenty hourly workers, and two mechanics over a three shift operation for Toner production and equipment change over job tasks
- Conducted PMC trials to determined optimum equipment setting for maximum product yield, and powder reclaim process for 5090 and 5012 Toners
- Directed capital equipment improvement project for Particle Size Reduction Team (PSRT)
- Designed Toner Slab Detection Control for Cool Crush operation; and Micronizer valve ramp control circuitry

INSTRUMENTATION ENGINEER, CDI Corporation, Oklahoma City, Oklahoma

1990 to 1992

Contract Instrumentation Engineer for Xerox – ETP plant facility startup in Oklahoma City. Directed construction trades during installation and debug of instrumentation at the ETP construction site. Maintained instrument calibration for ETP.

KEY RESULTS:

- Utilized Fisher Provox DCS for loop checks, and circuit debug of subsystems that covered more than 1500 control devices. Equipment included programming and installation of Modicon, and Allen Bradley PLCs for 115VAC switching and process control; Allen Bradley 460VAC, 3 phase, variable speed motor drives; pneumatic valve calibration; RTD transmitters; pressure & flow transmitter calibration and setup; equipment wiring to Fenwal Explosion Suppression Systems; and five high voltage motor starter control stations for Toner Micronizer operation
- Instrumentation calibration of Ingersoll Rand Air Compressors; water cooling tower; plant 4,160 VAC switching substation. Toner bottle filling, and packaging system; Carbon Black, Resin Tank Farm weighing, and bulk filling system

PROJECT ENGINEER IV, Frontier Engineering Inc., Oklahoma City, Oklahoma

1989 to 1990

Contract engineer assigned to various engineering projects for the Federal Aviation Administration Engineering branch.

KEY RESULTS:

- Provided engineering study that resulted in an annual savings for several US Radar Sites
- Designed RCL Voltage Buss Monitor per request from Nav-Aads Communication Group
- Conducted engineering study, and subsequent recommendation for lightning protection of land lines for air craft landing beacon shelters
- Results of investigation were key in resolving component high failure rate in certain model power converter units being installed in Distance Measurement Equipment (DME). Lead rework activity of power converter units

TECHNICAL TRAINING/CERTIFICATIONS

Smith & Nephew Inc., Oklahoma City, Oklahoma

Design Controls Regulation For Medical Devices and Design Control Procedures

ENISO9001/EN46001/GMP, ISO 9001-2000

QSR Training, Value Stream

Mapping and Kaizen Events Workshops

Arrow Electronics Tech, Dallas

Motor Control Technical Workshop

Micro Chip Inc. Dallas Texas

Embedded Pic Micro Processor,

Moore Technology Center, Moore, Oklahoma

Microsoft Access DB Level 1 and Microsoft DB Intermediate,

Microsoft Excel Level 1 and Excel Intermediate level

EDUCATION

BSEET, Southern University, Baton Rouge, Louisiana

A List of References Are Available On Request