

Sanjaya Ranasinghe

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SUMMARY

Enthusiastic engineer with five years of Manufacturing Engineering, Lean-Six Sigma, process improvements, cost reduction, SolidWorks Design, Project Management, Root Cause Analysis, Capital Acquisition, MS Office Suite, SAP & JDEdward ERP systems, BSc in Manufacturing Engineering, Masters in Business Administration (Expected May 2019) and a track record of success in consistent achievement of engineering project goals.

WORK EXPERIENCE

Assembly Manufacturing Engineer

Tennant Company

Golden Valley, MN

Sep 2013 – March 2017

- Provided trouble shooting and technical support to three assembly lines.
- Implemented a winterizing process for all Tennant scrubbers to protect machines during extreme cold weather. Approximately saved \$120000 per year.
- Improved rear squeegee assembly process by designing and implementing a setup fixture. Process time reduced by eight min per machine. Annual saving \$6650
- Saved approximately \$11,000 per year by reorganizing and eliminating transportation waste within a workstation.
- Conducted a Kaizen event with five members of cross functional teams to improve paint line material flow to increase productivity by 40%. Used Lean-Six sigma tools including standard work, 5S, eight wastes, and 5 Whys for product and process improvements.
- Successfully completed a project to analyze and correct BOM discrepancies. Total of 440 discrepancies were corrected.
- Prepared and monitored project plans and schedules, conducted project meetings, and communicated project status.
- Member of Tennant Safety Committee that drive safety initiatives and promote workplace safety.
- Worked with quality engineers to inspect quality issues, identify root causes, and initiate corrective actions to meet customer requirements.
- Created, modified and updated bill of materials.
- Created, modified and updated work orders, standard work, and assembly work instructions.
- Used time studies and Spaghetti Diagrams data to reorganize and balance assembly lines.
- Performed OHNO circle activities to identify process improvement opportunities.

Contract Manufacturing Engineer

Pentair Equipment Protection

Anoka, MN

May 2012 – Sep 2013

- Member of a two-person team that Proposed, planed, and budgeted an automated refrigeration charging system introduction Project. Projected Savings: \$100,000 per Year.
- Programmed 40 different shapes of copper tubes on PINES TECH CNC Bender.
- Used SolidWorks 2010 to design fixtures and to create engineering drawings.
- Provided trouble shooting and technical support to two assembly lines.
- Created and modified plant layouts using AutoCAD LT 2009.
- Communicated with manufactures to purchase capital equipment for Pentair Equipment Protection cooling department.
- Generated and updated machinery maintenance procedures, test procedures and trained manufacturing personnel.
- Created work instructions using SolidWorks 3DVia 2010.
- Created Engineering Change Orders (ECOs) for product and documentation changes.
- Supervised, trained, and monitored three engineering interns manage their projects.

Manufacturing Engineering Intern

BIC Advertising and Promotional Products
May 2011 - May 2012

Red Wing, MN

- Successfully completed a project to Improve flaming process to save \$40,000 per year.
- Performed over two hundred time studies, and data analysis. Improved scheduling accuracy by 60%.
- Worked with New Product Introduction (NPI) team to introduce new products to the production line.
- Created process flow maps for two products to standardize a base line.
- Continues Improvement Engineering: Identified suitable industrial oven setting temperatures and belt speeds for different products by performing tests.
- Created oven setting placards and guides for all industrial ovens in the BIC APP, Red Wing.

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CERTIFICATES

- ❖ **Lean-Six Sigma Practitioner Certification: Manufacturers Alliance**
- ❖ **OSHA Certified (30H) General Safety: United States Department of Labor**
- ❖ **SolidWorks Composer 3D Via: Alignex, A SolidWorks Authorized Training, Testing and Support Center**

RELATED PROJECT EXPERIENCE

Lean-Six Sigma Project

Jones Metal Products

Mankato, MN

Sep 2011 - Dec 2011

- Part of a four-person team that created a value stream map for ship info process, identified non-value added processes and quality issues using Lean Manufacturing and Six Sigma Methodologies.
- Used A3 for project tracking and team communication.

Senior Design Project

Wenger Corporation

Owatonna, MN

Aug

2011 - May 2012

- Worked with an industrial team to design material storage and handling solution within a work cell using SolidWorks 2010.
- Analyzed of materials for feeder design FEA in conjunction with overall design parameters.

ADDITIONAL ENGINEERING RELATED SKILLS

Advanced Manufacturing Process Skills

- Lean Manufacturing (DFM)
- Value Stream Mapping
- PIMS Audit
- Project management
- 5S
- Quality Control
- Design for Manufacturability
- Standard Work
- Root Cause Analysis

Microsoft Office and other Programs

- MS Excel
- MS PowerPoint
- MS Word
- MS Outlook
- MS Project
- SAP & JD Edwards ERP System

Computer Aided Design (CAD) Related Programs

- Solid Works 2010
- Radan 2012
- AutoCAD LT 2009

MACHINES AND TOOLS EXPERIENCE

- AMADA Press Brake
- Wheel Balancer
- Miller Electric Spot Welder
- Wire Crimping Machine
- PINES TECH CNC Bender
- Torque gun

- Rivet gun
 - Electric Drill
 - V-Tech Automated Refrigerant Charging Machine
 - Milling Machine
 - Belt and Disk Sanding Machine
 - Burr Oak Tube Cutter
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EDUCATION

BS, Manufacturing Engineering Technology

GPA 3.2/4.0

Minnesota State University, Mankato

Mankato, MN

Aug 2008 – May 2012

- Director of Public Relations – APICS MSU Chapter
- Member of the Society of Manufacturing Engineers
- Member of American Society for Quality
- Off Campus Senator – Minnesota State Student Association
- Vice President and Treasurer – Mankato Cricket Club