

Srikar Gudimellatirumala

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PROFILE

Mechanical engineer with hands on experience in packaging design for automotive parts and supplier management. Competent in finding opportunities to achieve cost savings/ reduction through Packaging/Transportation optimization.

Technical Skills

- Geometrical study of the part using 3D Analysis and creating packaging instructions for the parts considering transportation and quality factors.
- Experience in Packaging records and optimization of NPI/ NSI projects.
- Creating Packaging concepts using CREO and 3D simulations to accommodate parts in standard packaging type as per line requirements and station design.
- Cost modelling and cost analysis with purchasing and logistics resources for NPI projects.
- Monitor KPI's and work with Manufacturing and design engineers to optimize packaging design according to line side requirement.
- Prioritize suppliers based on demand and implement returnable packaging solution to reduce packaging costs and bi product material.
- Design custom racks for critical parts like Support assemblies, hoods, handrails, car bodies, engines etc.

WORK EXPERIENCE

CATERPILLAR HEX FACILITY

Victoria, TX

Packaging Engineer

March 2020 – Present

- Designed and developed metal rack for excavator Hoods to cut packaging charges of \$ **89,000** per year and avoided **56,000** pounds bi product material.
- Designed Metal racks for skirts as a returnable solution to attain cost savings of \$ **87,408** avoid **201,061** pounds of wood.
- Participate in Gate way reviews and Present Business case for packaging budget approvals.
- Working on NPI/NSI of **374/395** machines: Lead daily meetings with cross functional teams to give packaging updates and monitor packaging for every part.
- Forecasted \$ **1.2 Million** savings by using **Excel** and **Power Bi** data visualization in finding out packaging opportunities with returnable and custom ack solutions.
- Successfully transformed 12 suppliers from expandable packaging to returnable packaging and reduced packaging cost of **\$200,000**
- Designing rework process drawings to use the existing hood racks of old machine for Next generation Excavator, in order to avoid new rack costs and packaging costs- Savings opportunity of **\$125,000**
- Increased packaging work order coverage from **50%** to **65%** on supplier records and **80%** to **95%** on universal records.
- Determining the rounding values of all inbound shipments to avoid Partial shipments and increase transportation and packaging efficiency to attain cost savings/ reduction of **\$100,000**
- Presented Business case for budget approvals Implemented yard preservation process in order to protect inventory of worth **\$5M** (Incudes heavy parts like Booms sticks and heels) on the yard from rust and contamination.
- Lead the cross functional team meeting to exchange packaging updates and changes from the suppliers.

- Follow-up with suppliers, to ensure root cause is found and robust corrective actions are implemented and documented by the supplier, communicate findings to packaging team in order to make packaging changes to reduce cost or waste.
- Worked with logistics, quality teams and lead containment online shortage issues due to quantity discrepancies from suppliers.
- Worked with production and manufacturing engineers to determine packaging requirements at point of usage.
- Scheduling meetings with supplier and follow up on quality issues and Continuous improvement of packaging solutions.

Caterpillar Logistics
Champaign, IL
Packaging Engineer

March 2018- March 2020

- Deployed a packaging strategy and standard work process for a network of 37000 manufacturing parts and saved **8000 labor hours** by increasing data accuracy from **84% to 99%**
- Developed tools to determine required packaging to improve quality and reduce indirect material usage worth **\$200K**
- Improved day to day workflow by introducing new supplier nonconformance process to track the defects in inbound inspection
- Maintained whole supplier network of **3500** suppliers to improve quality of parts and reduced COPQ (Cost for poor Quality) by **\$150,000**
- Implemented **2 SFMEA** projects to maintain a safe environment in packaging lanes
- Resolved quality issues raised by overseas customers by implemented RP oil process and reduced the air freight charges by **\$200,000**
- Worked with multiple overseas customers to develop, maintain, and communicate all the packaging work orders
- Reduced corrugate box usage by increasing the cubic efficiency of the boxes and saved **98,000** pounds of Bi-product material.
- Designed and developed packaging and containerization for material from the source of supply to the point of use, leveraging Global Transportation processes.
- Design and development of returnable and expendable shipping containers for both delivery to the customer and inbound to manufacturing and assembly facilities.
- Developed Packaging instructions and owned the packaging work order process and approvals to avoid **\$ 150,000** Cost for Poor Quality Charges.

SOFTWARE APLLICATIONS

MS Excel, Tableau, MS PowerPoint, MS Word, Creo, Ansys, Pack Assist, CargoWiz, Artios CAD, Salesforce, SAP, Power BI, SharePoint

EDUCATION

Master of Science, Mechanical Engineering

Purdue School of Technology, Indianapolis, IN

Aug 2015 – Dec 2017

Bachelor of Technology, Mechanical Engineering

Gandhi Institute of Technology and Management, Hyderabad, India

Aug 2011 – May 2015