

RATHISH AKUTHOTA

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SUMMARY

Certified Lean Six Sigma Green Belt Industrial Engineer with proven expertise in manufacturing process optimization, layout design, and lean implementation. Skilled in AutoCAD, Power BI, and PFMEA, with a track record of improving productivity, reducing cycle times, and enhancing line balance through data-driven decision-making. Adept at collaborating across engineering, quality, and operations teams to deliver efficient, safe, and cost-effective manufacturing solutions.

SKILLS

- **Tools & Technology:** AutoCAD, SolidWorks, Power BI, Visio, Warehouse Management Systems, Excel, GSS ERP system
- **Continuous Improvement:** Lean Six Sigma, Kaizen, PFMEA, 5S, Just-In-Time (JIT), CAPA
- **Analysis & Planning:** Material Flow Planning, Capacity Planning, Process Flow Analysis, Time Studies, Line-balancing
- **Quality Systems & Compliance:** ISO 9001, APQP, SOP Development, Root Cause Analysis (RCA), 8D

EXPERIENCE

Z-Tronix, Inc

Sep 2024 - Present

Continuous Improvement Engineer

- Implemented **one-piece flow and 5S systems**, **reducing WIP** and improving line productivity by **15%**, driving Lean transformation across key assembly zones.
- Enhanced workstation efficiency by redesigning layouts with AutoCAD, boosting ergonomics, **streamlining material flow, and reducing operator motion waste**.
- Conducted **time studies and work measurement analysis** to validate workforce models, reduce cycle times, and optimize resource allocation across multiple product lines.
- Cut **picking and staging time by 40%** by reengineering warehouse layout and launching QR-based bin labeling, which increased inventory visibility.
- Developed and implemented digital work instructions and visual standard operating procedures (SOPs), **reducing operator training time by 20%** and improving consistency.
- Facilitated **PFMEA, RCA (8D, Fishbone), and CAPA workshops**, identifying root causes of downtime and quality defects and driving **long-term corrective actions**.
- Collaborated with cross-functional teams to establish **standard work, capacity plans**, and ramp-up processes for new harness products, ensuring smooth production launches.

California State University, Los Angeles

Aug 2023 - May 2024

Teaching Associate

- Collaborated on the design and **prototyping** of an **underwater remotely operated vehicle (ROV)**, utilizing advanced mechanical design and automation principles to drive **innovative project outcomes**.
- Delivered technical training in **engineering design and manufacturing methods**, strengthening hands-on skills in prototyping and production.

Singareni Collieries Company Limited

Nov 2021 - Jul 2023

Production Supervisor

- Managed daily production and workshop operations, enforcing **safety, quality**, and output standards, which enhanced **overall equipment effectiveness**.
- Conducted **time and motion studies** and implemented balanced work assignments to improve manpower utilization and **reduce idle time**.
- Oversaw **material handling, inventory control, and just-in-time delivery** processes to prevent shortages and cut excess inventory.
- Collaborated with **planning** and quality teams to **synchronize daily production targets** with material availability and customer schedules.

EDUCATION

California State University, Los Angeles

Aug 2022 - May 2024

Master of Science (M.S.), Industrial Management

Mahatma Gandhi Institute of Technology

Jul 2018 - Aug 2021

Bachelor of Technology, Mechanical Engineering

CERTIFICATIONS

- Lean Six Sigma Green Belt
- Microsoft Excel

ACHIEVEMENTS & AWARDS

- **Outstanding Academic Excellence Award:** California State University, Los Angeles (2023 & 2024).
- Led Kaizen and PFMEA workshops, guiding cross-functional teams to implement preventive actions that improved process reliability and reduced downtime