



Ashutosh Garg R

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Summary

Operations and supply chain leader with 5.5+ years of experience focused on streamlining processes with technology, driving data driven strategic shifts in manufacturing scheduling while collaborating with suppliers/CFT and managing a workforce. Championed forward-thinking strategic initiatives focused on scalability via capital expenditure projects, operational resilience and long-term financial gains.

Professional Experience

Production Manager – Operations/Planning | Caterpillar Inc | Tiruvallur, Chennai, India.

- Reduced throughput time from 5 to 3 shifts by implementing mixed-model scheduling using IoT and PINPOINT platforms, enhancing agility and flexibility across machine shop and assembly layouts.
- Led 130-member shop-floor workforce to achieve record monthly output of 163 axles and 131 transmissions (Mar'23), surpassing historical production benchmarks.
- Sustained 60% OPE – Overall Performance Effectiveness in assembly through adoption of advanced DC tools and digital systems, improving process reliability and workforce efficiency.
- Drove change management initiatives to increase axle output per shift from 4 to 6 in 2024, delivering a 50% improvement in plant productivity.
- Managed end-to-end axle and transmission assembly for 10 off-highway and underground mining truck models, ensuring on-time delivery and build-to-order alignment.
- Directed monthly production scheduling across machining, assembly, and test shops in axle plant, enabling build-to-order strategy execution.

LTDP Operations Leadership –Supply Chain & Logistics | Caterpillar Inc | Tiruvallur, Chennai, India.

- Determined optimal replenishment quantity (ORQ) for parts sourced from China, reducing freight costs with a potential annual savings of \$1.1M at 1,500-unit volume.
- Drove transition of 15 key suppliers to a Direct-to-Line strategy, enhancing value chain responsiveness and achieving 98% schedule adherence rate.
- Cut inventory levels by \$21K by shifting 4 high-value excavator parts from 6 to 3 DoH, freeing working capital.
- Optimized manufacturing cycles using MRP-SAP to align capacity and material availability, improving production planning efficiency.
- Engineered returnable D2L pallets for point-of-use handling of 150 excavator hoses, reducing packaging waste and lowering manufacturing footprint.

Section Manager – Operations | Caterpillar Inc | Tiruvallur, Chennai, India.

- Spearheaded localization and stabilization of transmission NPI in India, supporting firm's strategic shift toward regional manufacturing.
- Digitalized job card tracking through PINPOINT systems, enabling real-time monitoring of workforce efficiency and process adherence.
- Supervised 2 axle and transmission testing stations, sustaining first-pass yield (FPY) of 90% through process rigor and quality control.
- Managed axle and transmission assembly operations, ensuring smooth production flow and adherence to delivery schedule.

Manufacturing Engineer | Caterpillar Inc | Tiruvallur, Chennai, India.

- Led \$200K Capital Asset project as a part of facility transformation for off-highway trucks, scaling plant capacity to 160 units under a multi-generational proactive planning strategy.
- Introduced 2 new assembly stations to align with revised TAKT (4–6 trucks/shift), establishing streamlined process flow and throughput.
- Implemented 5 engineering changes in-line by redesigning processes, parts, and material presentation, supporting product improvements and new product introductions
- Planned and optimized factory layouts through space reallocation, process redesign, and expansion planning to improve utilization and assembly efficiency.
- Redesigning flow and pressure circuits for oil filling system, improving performance efficiency across 4 oil types used in production.
- Advised on manufacturing processes, tooling, gauging, and cost/delivery analysis to enhance production efficiency and reduce bottlenecks.

Education

B.Tech – Mechanical Engineering – SASTRA University | Thanjavur, Tamil Nadu, India.

Accomplishments

- Scholarship – Deans List – Top 2% of the batch in academic performance in 1st Year Undergraduate.
- Best Student Award – For displaying consist excellence in academic and co-curricular field in 9th Standard.
- Recognized as the Top 3 ideas of the Entrepreneurship Course for Digital Dhobi platform at university in Undergraduate.

Certifications

Lean Six Sigma Green Belt Training, Caterpillar

Mar 2023

In Plant Training at Rashtriya Ispat Nigam Limited. (Vizag Steel Plant)

Jun 2017

Extra-Curriculars

- Vertical Head of the Placement Committee (PGPX), responsible for the initiation and smooth implementation of placement activities.
- Played at the State Level Table Tennis Tournament conducted by School Games Federation of India.
- Secured top positions, including 1st and 3rd place finishes, in multiple intra-school and university-level tournaments.
- Achieved Best(2nd) position paper in the Model United Nations Conference – Hyderabad representing the county Canada.
- Served as Sports Secretary of University in 2018-2019.
- Worked in the Core team and conducted the Techno-management Fest and Cultural Fests of our University.
- Recognized as a volunteer under the National Service Scheme (NSS) for contributing to socio-economic development initiatives.