

RAJEEV GANGWAR

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PROFESSIONAL SUMMARY

Supply Chain Analytics Expert with 15+ years' experience in supply chain modelling, cost optimization, inventory optimization and simulation. Engineering & Supplier Management foundation from Maruti Suzuki combined with spares logistics & planning subject matter expertise at Applied Materials enables end-to-end mastery of product development lifecycle and complex global supply chains. Currently driving spare part planning through statistical forecasting, discrete-event simulation, and process improvements in the Inventory Optimization Team. Agentic AI enthusiast focused on business process automation.

EDUCATION

Master of Science in Industrial Engineering	Oklahoma State University, Stillwater, USA	[July 2015 – May 2017]
Bachelor of Technology in Mechanical Engineering	G B Pant University, Uttarakhand, India	[July 2004 – May 2008]

TECHNICAL SKILLS

Supply Chain Network Optimization, Discrete Event Simulation, Cost Analysis, Facility Planning, Inventory Optimization, Linear and Mixed Integer Programming, Visualization, Forecasting, Product Development

- **Data Analytics & Visualization Tools:** SQL, Tableau, Python, Hadoop, Databricks, Gurobi
- **Business Process Specific Tools:** Supply Chain Guru, AnyLogic, Celonis, Aris, MS Copilot Studio, Claude Code

PROFESSIONAL EXPERIENCE

Applied Materials (AGS – Service & Spares Division of Applied Materials) Santa Clara, California

Applied Global Services (AGS) – After-sales service contracts and spare parts lifecycle management for semiconductor equipment, global operations with high service levels and significant inventory complexity.

• Spares Planning Analyst [March 2024 – present]

- Lead and participate in business improvement projects for spare parts planning using Machine Learning and Simulation.
- Conduct scenario planning and analysis for critical decisions in operation and strategic planning, mostly triggered by industry growth and supply chain disruptions, and realignments, using End to End Supply Chain Simulation Model.
- Developing Warehouse forecasts for warehouse capacity using Part Characteristics, S&OP forecast and long-term growth trends.

• Logistics Network Optimization Analyst [October 2017 – March 2024]

- Developed and automated *global reverse logistics routing processes* for repair businesses to reduce cycle time and logistics costs, resulting in approx. 10% cost savings and 20% cycle time reduction.
- Developed Import Duty Models for duty estimation and further use it to reduce overall duty impact.
 - Managed project to modify repair network to mitigate 25% penalty tariffs for China origin parts, resulting in \$5M+ duty savings, and was awarded AGS quarterly team award in 2019.s
 - Developed proposal for free trade agreement implementation by modifying current networks with estimated savings of \$1Mn+.
- Analyzed global sales and improved *depot-customer mapping* considering service level requirements and warehouse capabilities.
- Saved \$2.4Mn by implementing the Cartonization Algorithm Implementation for Warehousing Outbound Packaging, which involves *box size recommendation* for airfreight to reduce dimensional weight with savings for the project are \$1M~\$2M.
- Analyzed scrap & repair operations to facilitate scrap evaluation team in globally *optimal positioning of manpower* in various facilities to reduce evaluation lead time and reduce overall logistics and travel cost.

Maruti Suzuki India Ltd (subsidiary of Suzuki Motor Corporation, Japan) Gurgaon, India

• Deputy Manager, Inner Part Localization, Supply Chain Division [July 2008 – Mar 2012]

- Analyzed and formulated localization projects considering variables like annual volume, foreign exchange, product lifecycle and manufacturing viability of child parts imported by Tier 1 suppliers, to mitigate impact of foreign exchange fluctuation.
- *Negotiated localization prices* in sourcing imported child parts with Tier 1 suppliers resulting in \$10 million savings in 3 yrs.
- *Coordinated with Engineering and Quality* teams for successful and timely implementation of localized parts at Tier 1 supplier.

• Assistant Manager, Transmission Design & Development, R&D Division [Mar 2012 – July 2015]

- Handled and monitored development of transmission parts from design to mass production stage with active involvement in supplier selection and evaluation.
- Supported field quality and service teams to resolve customer problems and improved design to eliminate repeated problems.

ACADEMIC PROJECTS:

- **Vehicle Routing Problem** using **Supply Chain Guru**, where transport routes need to be improved between manufacturing facilities and warehouses to get the optimal usage of fleet and minimize travel distance as well as travel time.
- Implementation of **Breadth First Search**, **Depth First Search**, **Shortest Path** using Dijkstra's Algorithm, **Minimum Spanning Tree** using Prim's Algorithm and **Maximum flow** using Ford Fulkerson Algorithm, P Center Problem (Minimax) and **Facility Location Problem** for sufficiently large networks in **Python**