APARNA YALAMANCHI

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EXPERIENCE

Tesla, Inc.   Fremont, CA
Associate Materials Program Manager, NPI   *March 2025 – Present*

- Reduced **pull-system and replenishment order errors by 80%** by driving cross-functional alignment and deploying material flow planning tools to support **JIT and Just-in-Sequence** execution.
- Achieved **30% reduction in air expedite costs** by designing and executing a systems-based, staggered **multi-modal shipping strategy** for China-origin parts.
- Built and maintained **part health dashboards** to identify aging inventory and obsolescence risks and used insights to drive cross-functional alignment in build readiness reviews for 4680 cell battery pack builds.
- Prevented part obsolescence by 90% during NPI C-builds by aligning BOM freeze with lead times and proactively tracking ECOs to flag high-risk components ahead of design changes.

Material Depot (YC W22)   Bengaluru, India
Procurement Specialist   *April 2023 - July 2023*

- Increased supply chain visibility by 22% **through** ERP-based tracking and SQL-driven data pipelines**, improving** forecast accuracy by 18%**.**
- Developed KPI reporting frameworks**, improving** supplier compliance by 18% **and reducing material shortages by** 20%**.**
- Automated supply chain reporting via SQL and Power BI**, reducing reporting lead times by** 30% **and enhancing** real-time decision-making**.**
- Reduced order turnaround time by 20% by **optimizing supplier selection and route planning**, implementing multi-pickup/drop deliveries with 3PL services.

Shapoorji Pallonji Group   Hyderabad, India
Project Engineer – Supply Chain Planning   *January 2021 - December 2022*

- Developed and implemented capacity planning strategies for a $70M construction project, optimizing resource allocation and ensuring material flow, resulting in a **15% reduction in lead times.**
- Led a team in developing **should-cost models** of different building materials using MS Excel, Power BI and SAP to **make-or-buy** $6 million worth of materials at 8% less than budget.
- Designed trackability systems **for non-inventory assets, improving** traceability by 20% **and reducing supply chain disruptions by** 12%**.**
- Implemented inventory buffers**, decreasing supply chain variability by** 18%**, while increasing on-time site deliveries by** 25%**.**
- Utilized SAP and Excel for maintaining accurate MRP data, including delivery quantities and due dates, ensuring real-time updates and reducing inventory discrepancies by **12%**.
- Created dashboards using advanced **Excel functions (Pivot Tables, V-Lookups)** to track key performance indicators (KPIs) for inventory management, **reducing surplus inventory by 15%.**

EDUCATION

Duke University   Durham, NC
Master of Engineering Management (MEMP), GPA: 3.70/4.00   *August 2023 - December 2024*
Led peer learning sessions on data-driven projects (using R, SQL, Power BI and Tableau) as President of Duke Data Club.

Vellore Institute of Technology   Vellore, India
Bachelor of Technology in Civil Engineering, GPA: 3.73/4.00   *July 2016 - July 2020*

SKILLS

Supply Chain Planning & Optimization: Demand forecasting, IBP, S&OE, ERP, PLM systems, inventory planning
Data Analytics & Business Intelligence: SQL, Excel (Pivot Tables, VLookUps), Power BI, Tableau
Financial & Cost Analysis: Budget planning, should-cost modeling, inventory cost optimization