

Manufacturing Planning Engineer

Samantha Lee

Professional summary

Manufacturing planning engineer with experience in production scheduling, resource optimization, and workflow coordination in automotive and aerospace environments. Proficient in SAP, lean principles, and capacity planning strategies that enhance throughput and reduce cycle times.

Experience

Manufacturing Planning Engineer

2020 - Now

Magna International / Detroit, MI

- Design and maintain production schedules for multiple component lines, ensuring daily output targets are met without exceeding resource constraints or labor capacity.
- Collaborate cross-functionally with operations, logistics, and quality teams to align schedules with inventory levels and material availability, reducing downtime by 18%.
- Optimize takt time across automated and manual assembly lines, introducing schedule adjustments based on real-time production feedback.
- Conduct root cause analysis for delays and revise scheduling templates to prevent recurrence, improving schedule accuracy across three facilities.

Production Scheduler

2016 - 2020

GE Aerospace / Grand Rapids, MI

- Managed end-to-end scheduling for turbine component manufacturing, integrating engineering change orders and non-standard processes into production workflows.
- Created visual management tools and real-time dashboards to monitor adherence, enabling supervisors to adjust shifts and production order priorities on the fly.
- Worked closely with procurement and material planners to time deliveries with work orders, minimizing excess stock and production halts.
- Supported continuous improvement teams with schedule data and bottleneck analysis, leading to a 17% improvement in on-time delivery performance.

Additional Information

- Graduate, Detroit Lean Manufacturing Bootcamp (2025)
- Presenter, 2024 Midwest Operations Planning Conference
- Skilled in Oracle NetSuite, Tableau, and Power BI

(248) 555-4420

samantha.lee@email.com

Detroit, MI

Education

Bachelor of Science in Industrial Engineering

Michigan State University | East Lansing, MI | 2016

Certifications

- Certified in Production and Inventory Management (CPIM) – APICS | 2021
- Six Sigma Green Belt – ASQ | 2019

Skills

SAP Production Planning	◆◆◆◆◆
Capacity Planning	◆◆◆◆◆
Lean Manufacturing	◆◆◆◆◆
Line Balancing	◆◆◆◆◆
Six Sigma	◆◆◆◆◆
BOM Management	◆◆◆◆◆
ERP/MRP Systems	◆◆◆◆◆
Workflow Optimization	◆◆◆◆◆
Inventory Control	◆◆◆◆◆
Gantt Chart Scheduling	◆◆◆◆◆