

Lukas Neal

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SUMMARY

SAP manufacturing and MES consulting manager with six years of experience delivering production system integrations, plant deployments, and manufacturing transformation initiatives. Combines **SAP S/4HANA**, **SAP ERP**, PP, PP PI, QM, MM, EWM, **SAP Digital Manufacturing**, **SAP ME** and MII, Integration Suite, BTP, APIs, OData, and IDoc expertise with practical shop floor knowledge. Leads discovery workshops, architecture, testing, cutover, hypercare, and multi site rollout across discrete and process manufacturing environments. Guides distributed consultants while translating production, quality, automation, traceability, and executive needs into scalable designs. Resolves interface and data issues, standardizes reusable integration patterns, manages delivery risks and resources, and produces specifications, test assets, operating procedures, and stakeholder communications. Brings a collaborative consulting approach that supports reliable production operations, strong client relationships, and measurable manufacturing value.

EXPERIENCE

SAP MES Integration Manager

January 2025 - Present

Cobalt Ridge Consulting

Denver, CO

Leads multi plant **SAP S/4HANA** and SAP Digital Manufacturing integration workstreams from discovery through stabilization. Directs distributed consultants, cross functional specialists, testing, cutover, risk management, and reusable architecture patterns that support repeatable plant deployments.

- Led S/4HANA and **SAP Digital Manufacturing** discovery across multiple plants, clarifying production priorities.
- Converted **quality**, automation, and supply chain needs into approved **architecture** and interface backlogs.
- Designed reusable order, BOM, routing, batch, serial, confirmation, and inspection interfaces for rollout.
- Coordinated **PP**, QM, MM, **EWM**, PM, BTP, security, infrastructure, and automation specialists through cutover.
- Directed unit, integration, regression, performance, and UAT testing, closing defects before hypercare.
- Mentored consultants and standardized integration patterns, giving later plant deployments a clearer starting point.

Senior SAP Manufacturing Consultant

July 2023 - December 2024

ForgePoint Systems

Milwaukee, WI

Delivered **SAP S/4HANA** and MES integration programs covering production transactions, **plant connectivity**, quality data, and operational support. Shaped specifications, testing, root cause analysis, training, and solution reviews across manufacturing and technology teams.

- Delivered S/4HANA and **MES** integration for production transactions from order release through confirmation.
- Built **SAP Digital Manufacturing** specifications aligned with PP, QM, MM, and EWM data.
- Connected PLC, SCADA, historian, test station, and **industrial IoT** data through middleware.
- Resolved duplicate confirmations and genealogy inconsistencies through structured interface **root cause analysis**.
- Created process flows, configuration records, test scripts, cutover checklists, and support procedures.
- Guided solution reviews toward standard SAP capabilities, reducing unnecessary customization during delivery.

SAP Manufacturing Consultant

September 2020 - June 2023

Meridian Process Solutions

Columbus, OH

Configured SAP PP and PP PI manufacturing scenarios and supported ERP to MES integration across production, quality, genealogy, and analytics. Prepared testing, data readiness, mock cutover, go live, and support transition materials for plant teams.

- Configured PP and **PP PI** scenarios for orders, recipes, **work centers**, materials, and batches.
- Defined IDoc, web service, and API requirements connecting ERP with MES production transactions.
- Supported inspection, nonconformance, serial genealogy, batch genealogy, and **automated data collection** designs.
- Executed integration and **regression testing**, making reproducible defects easier for teams to resolve.
- Prepared mock cutover, validation, **go live**, **data readiness**, and support transition materials.
- Built MES analytics and OEE prototypes, giving operations clearer visibility into production exceptions.

PROJECTS

Multi Site Manufacturing Integration Blueprint 📅 2025

Created a reusable blueprint for SAP S/4HANA, SAP Digital Manufacturing, BTP, and plant connectivity. Mapped production, quality, material movement, traceability, testing, cutover, and support patterns for future deployments.

Manufacturing OEE and Traceability Prototype 📅 2023

Developed an analytics prototype combining MES events, production confirmations, genealogy, and OEE indicators. Helped manufacturing teams review exceptions and connect operational signals with quality outcomes.

LEADERSHIP & AWARDS

- Recognized by consulting leadership for reusable SAP manufacturing integration patterns supporting repeatable plant rollouts.
- Selected to mentor consultants across SAP Digital Manufacturing, interface design, testing, and production support workstreams.
- Received client praise for clear cutover planning, defect triage, and dependable hypercare coordination.

EDUCATION

Bachelor of Science in Industrial Engineering
University of Wisconsin Madison GPA: 0
Coursework: Production Planning, Manufacturing Systems, Quality Engineering, Supply Chain Management

2020
Madison, WI

CERTIFICATIONS

- SAP Certified Associate, SAP S/4HANA Production Planning and Manufacturing 📅 2024
- SAP Integration Suite Learning Journey Certificate 📅 2025

TECHNICAL SKILLS

- **SAP Manufacturing:** SAP S/4HANA, SAP ERP, SAP Digital Manufacturing
- **SAP Planning Modules:** PP, PP PI, planned orders
- **SAP Quality Modules:** QM, inspections, nonconformance
- **SAP Logistics Modules:** MM, EWM, inventory updates
- **SAP Integration Tools:** Integration Suite, BTP, Cloud Connector
- **Integration Interfaces:** APIs, OData, IDocs
- **Industrial Connectivity:** PLC, SCADA, DCS
- **Plant Data Systems:** Historians, sensors, industrial IoT
- **MES Platforms:** SAP ME, SAP MII, MES
- **Manufacturing Controls:** Robots, CNC machines, test stations
- **Production Analytics:** OEE, manufacturing analytics, dashboards
- **Testing Delivery:** Unit testing, integration testing, UAT
- **Deployment Operations:** Cutover, mock deployment, hypercare
- **Manufacturing Records:** Genealogy, traceability, electronic batch records
- **Production Transactions:** BOMs, routings, confirmations

SKILLS

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|-----------------------------|------------------------|---------------------|-----------------------|
| • SAP S/4HANA | • Quality Management | • Integration Suite | • IDocs |
| • SAP Digital Manufacturing | • Material Management | • SAP BTP | • Traceability |
| • SAP ME and MII | • Warehouse Management | • APIs | • Root Cause Analysis |
| • Production Planning | • Plant Maintenance | • OData | |

PROFESSIONAL AFFILIATIONS

- SAP community participant focused on production planning, manufacturing execution, and integration delivery.
- Industrial engineering network member connecting manufacturing systems practice with plant operations and quality improvement.

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST