



Benefits for your business

Mission To help you develop configurable product structures that contain and control your assembly documentation and that are tightly integrated with your manufacturing and material planning processes.

Summary I am an APICS-certified design/manufacturing engineer who bridges the Engineering, Manufacturing, and Materials functions to solve configuration and material flow problems.

I can help you design a Configure-to-Order (CTO) strategy that will enable:

- *Accurate quoting* with easy-to-prepare configured orders and pick lists.
- *Efficient manufacturing execution* using automatically configured work orders and routings combined with integrated assembly documentation.
- *Lower inventories* through better material planning of optional items.

I have significant experience with functional design and testing of *Configurator Extensions* that access external databases and procedures.

I can also assist you with long-term issues such as new product introduction, model maintenance and engineering changes, and staff training.

Problem-solving skills you can use

Engineering Deliverable skills you can use to achieve your Configure-to-Order objectives include:

- Building customized Configurators to enhance *Quoting* and *Order Management*.
- Creating configurable BOMs and routings that customize the *Manufacturing* process.
- Designing *Configurator Extensions* and leading their development.

Software The following specific software skills add to a solid understanding of ERP principles:

- Hands-on model design, rule programming, and user interface development in the *Oracle Configurator Developer* through version R12.1.3.
- Working knowledge of Oracle APC, BOM, INV, OM, and WIP applications.
- Microsoft Word, Excel, Outlook, PowerPoint, Project, and Visio.

Communications Excellent written and verbal communications skills:

- Team and meeting leadership.
- Executive presentations.
- Oracle Configurator skills training.
- Model and process documentation.

Foundation

Education **M.B.A.** (Concentration in Manufacturing Strategy and Operations), Lehigh University.

B.S. Mechanical Engineering, University of Colorado.

Certifications *CPIM* certification from the American Production and Inventory Control Society (APICS).

Results delivered to past customers

Professional experience

ORACLE CONFIGURATOR ENGINEER

2001-present

Devise Configure-to-Order (CTO) product models that simultaneously serve Marketing, Manufacturing, Engineering, and Planning/Purchasing in Oracle implementations.

- **Alcoa Global Rolled Products** Implemented and maintained 14 Oracle Configurator models for Alcoa's China and Brazil plants through a full implementation life-cycle.
- **ATI Allvac**
 - Led the development of an Oracle guided-selling Configurator for specialty steel and titanium, working with Engineering, Quality, and Order Management.
 - Designed the architecture and wrote functional specifications for Configurator Extensions that integrate the Configurator with Allvac's proprietary Manufacturing Capability and Specifications databases and Oracle's Advanced Product Catalog.
 - Managed two Java developers.
- **Emerson Process Micro Motion Inc. (MMI)**
 - Replaced >28,000 factory BOMs with ~60 Oracle Configurator models.
 - Developed "Unit-Related Data" models for collecting and validating sensor and transmitter non-BOM data and transferring to manufacturing systems.
- **Emerson Process Valve Automation Division (VAD)**
 - Led a three-day Executive Vision Workshop that discovered and documented the primary goals for the VAD configure-to-order implementation.
 - Delivered Configurator training using a VAD product, with emphasis on rule re-use and the use of ATO sub-models for dependent and independent demand.
- **Johnson Controls, Inc.**
 - Solution Architect for the Aiolos project, responsible for gathering requirements and designing solutions to integrate the Equipment and Systems businesses.
 - Wrote a detailed Model Architecture Document.
- **OFS Brands**
 - Guided Engineering and Product Management in the development of a CTO strategy that focused on the huge product variety.
 - Designed and developed five Oracle Configurator models for a multi-plant, multi-org proof-of-concept. The models incorporated multiple ATO sub-models to enable single-screen configuration of dependent demand throughout a complex vertically integrated supply chain, as well as independent ordering of sub-components. The models allow re-use of both rules and user interface elements to lower implementation costs and ensure consistency across models.
- **PCTEL**
 - Built an Oracle Configurator covering more than 50 cable and antenna products.
 - Designed Configurator Extensions to create custom item numbers and descriptions.
- **WMS Gaming** Reduced total-time-to-quote from days to minutes with an R12 Oracle Configurator model that enables WMS Account Executives to directly order material for converting and upgrading casino-installed gaming equipment.

Professional experience

SENIOR MANUFACTURING ENGINEER

Etec Systems, Inc., 1996-2001

Devised BOM and routing solutions that simultaneously served Engineering, Manufacturing, and Planning/Purchasing for both existing products and New Product Introduction.

- Eliminated manually expedited work orders by redesigning the product BOM and manufacturing sequence and creating ~60 new assembly drawings.
- Directed a 6-person team that redesigned and converted 750 manufacturing routings to the Oracle database format in 4 months with zero defects.
- Solved work order closure, inventory control, and damage problems by redesigning the BOM and manufacturing routings for an optical device with ~30 subassemblies.

BUSINESS/MANUFACTURING PROCESS ANALYST

Computer Aid, Inc., 1994-1996

- Designed Just-in-Time (JIT) manufacturing systems with discrete-event simulation.
- Strategic planning and systems requirements definition for manufacturing customers.

SIMULATION CONSULTANT

IBM Corporation, 1987-1992

Designed manufacturing systems with discrete-event simulation. Sample projects include:

- **Red Wing Shoe Company** Reduced WIP 20:1 and span time 12:1 with 5 JIT production cells, resulting in improved retail store service and reduced finished goods inventory.
- **S&C Electric Company** Reduced WIP 5:1 and span time 2:1 with a new system for manufacturing high voltage switches.
- **McDonnell-Douglas Aircraft Company** Saved \$30M per year with no capital investment by bringing outsourced F-18 forward fuselage sub-assemblies in-house.
- **Lord Corporation** Designed a CFM system that enabled Lord to meet customer-imposed JIT delivery requirements with 1 week of finished-goods inventory. Calculated labor and equipment requirements, and showed the benefits of improved process control.
- **Tektronix Corporation** Demonstrated the negative effects of yield on make-span time.

DESIGN ENGINEER

IBM Corporation, 1977-1987

Used concurrent engineering to achieve functional performance, manufacturability, and low cost on rotating scan mirror assemblies. Designed parts, assemblies, and associated assembly tooling and inspection equipment. Worked with suppliers to develop manufacturing processes.