

Robert Wang

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Objective

Seeking a teaching position in a major graduate school where I can share my 20+ years of Supply Chain experience and my expertise in advanced business analytics and optimization modeling.

Education

PH.D. IN OPERATIONS AND SUPPLY CHAIN MANAGEMENT | MARCH, 1995 | ANDERSON GRADUATE SCHOOL OF MANAGEMENT, UNIVERSITY OF CALIFORNIA, LOS ANGELES

M.S. IN OPERATIONS RESEARCH | MARCH, 1987 | SHANGHAI UNIVERSITY OF TECHNOLOGY

B.S. IN MATHEMATICS | JULY, 1984 | SHANGHAI NORMAL UNIVERSITY

Skills & Abilities

LEADERSHIP

- Propose and influence executive leadership team on supply chain strategies and improvement projects
- Design and develop innovative optimization models to solve complex problems and improve business processes.
- Develop and implement methodology and processes for analytic project management.
- Propose and develop analytic data infrastructure and software packages for rapid project and reporting development and automation.
- Propose and lead cross-functional teams in implementations of complex solutions.
- Actively involved in team and organization recruiting, interviews, and performance feedback.
- Mentor, coach and develop junior members in the team.

COMMUNICATION

- Practice leader for Production & Operations Management Society (POMS) for three years. Invited to present Nestle improvement projects and participated in panel discussions.
- Invited to give panel presentation and discussion in INFORMS conference.
- Annual guest speaking for USC MBA program for 8 years. Invited to speak on applications of analytics in real world supply chain.
- Give proposals and presentations to senior leadership team.

TECHNICAL AND SOFTWARE SKILLS

- Extensive hands-on experiences in SQL data model design, stored procedure, application architecture design, Tableau for data visualization, Statistics, Monte Carlo simulation, Access database, VBA, etc.

MODELING SKILLS

- Extensive hands-on experiences in Gurobi, Cplex, and Xpress optimization engines, MPL modeling language, Large scale optimization model design and development.

Experience

PRINCIPAL SUPPLY CHAIN OPTIMIZATION | NESTLE USA | SEPT 2001 - PRESENT

- Architect and develop Boundary Realignment models, design and lead implementation processes for Ambient & Conditioned, Chilled, Health Care Nutrition and Frozen Networks. The capacity constrained model evaluates at ship-to, product, sourcing plants, DCs, and sales channel level to generate a lowest total delivery costs solution. The output of the model provides a delivery boundary for customers and required overflow usage. The models are used annually, and achieved more than \$35 million savings in transportation, and fixed logistics in the last 8 years.
- Architect, develop, and execute strategic Network Design models for network consolidation, business merge and acquisition, new plant site selection, green field network re-design, supply chain alliances, production sourcing changes, etc. The modeling approach incorporates deployment (material flow from plants to storage facilities) and inventory strategies (what types of inventory place at where and how much) into the network models. The models are used every year for various events.
- Architect and develop a Dynamic Deployment Model (DDM) to manage warehouse capacity for our 3 main networks. This capacity constrained model uses optimization technology to concurrently optimize deployment plan, inventory strategy at SKU / DC level with 52 weeks' time horizon for each network. The results of the model have been used by the physical logistics organization and deployment function on a weekly base to guide network capacity, deployment and inventory strategy.
- Architected and developed Master Production Scheduling (MPS) models, designed and let implementation process for more than 25 plants, and 150 production lines. Its data modeling utilized a hybrid of centralized SQL server for common master data and de-centralized Access database for line specific data to achieve a balance of efficiency and flexibility. The modeling approach put a great emphasis on its realistic constraints and executability by capturing properly the dynamic nature of change-over and capacity on production lines. Achieved more than \$25 million savings in a time span of 5 years.
- Architected and developed a down-stream forecast application. The purpose of the application is to give supply chain organization a full visibility of lane level volume, storage capacity requirements, and DC labor requirements at weekly level. This application refreshes weekly to establish a base for operational planning for both physic logistics and transportation organizations.
- Architected and developed a Value-Add model to identify continuous move opportunity for Nestle private fleet operations. The model searches all the lanes within 4 Nestle operating companies at weekly level to formulate tours that maximize asset utilization and minimize dead-head. The model is being used as a key tool for strategic planning for the fleet, and annual freight bid for carriers.
- Developed a salvage/freshness model to assess the potential risk of product salvage for a current production plan by considering warehouse shelf-life, demand forecast accuracy, etc. The model is used in the supply planning process to determine production priority.
- Developed and supported a variable distribution model for annual logistic budget. This model uses production and demand plan as inputs, and generates a bottom-up SKU level deployment plan at weekly level (18-month out) for all 4 networks (about 3,500 finished good products). The output of the model provides weekly inventory projection at location level as well as deployment plan with fully loaded costs.

SENIOR PRODUCT MANAGER | SEEBEYOND TECHNOLOGY | NOV 2000 – SEPT 2001

- Managed e-Xchange product suite, a leading B2B integration product. Major responsibility included business requirement definition for new product features and enhancements, architecture and GUI design, and pre-sales and customer support.

MANAGER | DELOITTE CONSULTING | SEPT 1997 – NOV 2000

- Managed i2 Demand Planner, Supply Chain Planner, and Demand Fulfillment end-user training development for Philips Semiconductors' world-wide implementation.
- Implemented an ERP system (Baan) for Herman Miller, a large office furniture supplier. We were engaged to re-engineer their entire business process from order to cash. My role was to lead the logistic area including warehouse management and distribution.
- Participated in an assessment for Hewlett Packard's corporate procurement and supply chain information system organization. The focus was on the potential application of Component & Supplier Management (CSM) system to improve the sharing of component life cycle across HP's value chain.
- Implemented a supply chain system that consisted of Supply Chain Planning, Order Management, and Warehouse modules for HP's International Procurement Organization.
- Ariba Buyer Implementation for Kaiser Permanente. Participated in the functional design of the procurement process. Led the supply chain business requirement gathering.
- Managed 5 webMethods implementation projects for Ventro's CHEMDEX and Promedix vertical marketplaces. Developed an integration architecture between Ventro's exchange marketplaces and their suppliers' ERP systems.

SENIOR CONSULTANT | ERNST & YOUNG | MAY 1995 – SEPT 1997

- Participated in an ERP system implementation and re-engineering for an international pharmaceutical company. Led distribution and order fulfillment function design and configuration.
- Performed cost and benefit assessment of implementing an ERP system for Solar Turbine, a worldwide market leader in designing, manufacturing and distributing gas turbines.
- Developed a business case and risk assessment of implementing an ERP system for a large value-adding computer reseller.

Personal Interests

- Photography, Drone, Tennis, Travel, and Meditation.
- My Photo Albums: [MySamplePhotoAlbum](#)
- My Aerial (Drone) videos: [MyYoutubeVideos](#)