

# REBECCA L. PARIS

SUNY Stony Brook  
Stony Brook, NY 11974

## GRADUATE EDUCATIONAL EXPERIENCE

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### M.S. Technological Systems Management, Global Operations Concentration

June 2008 – May 2010

*This program enables individuals to understand the integration of an enterprise's processes, and how to utilize modern tools, techniques and technologies to make their organization more competitive and profitable. The goal of this program is to increase the student's value to their organization. This is accomplished by introducing the strategic fundamentals of the customer/value driven enterprise, the management concepts of organizational design and structure, and the basic business processes for running an enterprise, including quality, finance and accounting, and information systems.*

### Quantitative Methods in Management

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*Development and solution of models used in quantitative decision-making through case study applications*

- I learned to develop mathematical models of typical problems encountered in the management of technological systems
- Model formulations using algebraic operations, mathematical functions, and their graphical representation
- I used Microsoft Excel 2007 extensively as a decision support tool in analyzing the problems and developing solution techniques for the assigned case study applications
- I used Microsoft Word 2007 for preparing brief managerial reports summarizing my findings and recommendations for each case studies
- Topics covered included: interest, annuities, mortgages, forecasting, inventory and queuing models, Markov processes, simulation, mathematical programming (linear, integer, nonlinear, and goal) with applications, distribution and network models, project scheduling, and decision analysis (single-criterion and multi-criteria)

### Methods in Socio-Technological Decision Making

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*Application of decision-making techniques to analyze problems involving technology, particularly its social impacts*

- Decision making under uncertainty
- Decision making in active vs passive environments
- Sequential decisions
- Estimating payoffs
- Forecasting
- Technology assessments
- Applied various statistical and quantitative analysis methods such as hypothesis testing and Bayes' Theorem; methods were enforced through case study applications
- End of semester project required applying the methods learned in making a purchase or contract decision
- For this class, I utilized Excel 2007 for the analyses and Word 2007 for write ups and reports

### Global Operations Management

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*A managerial approach to concepts, issues, and techniques used to convert an organizations' resources into products and/or services; learned and analyzed ten primary strategies for successful operations management and current trends in operations.*

- Analyzed the art of operations management from transforming ideas and materials into true value-added for company stakeholders – ie, the products and services
- explored the entire value chain from design to forecasting to supply chain management, production and quality control
- Total Quality Management
- learned quantitative methods utilizing Microsoft Excel 2007 for analyzing and controlling cost, lead time and quality of the goods or services being produced
- I used Microsoft Word 2007 for preparing brief managerial reports summarizing my findings and recommendations for each case studies
- End of semester project required selecting a company and analyzing how that company applied these strategies. I utilized Word 2007 in the write up and PowerPoint 2007 for the class presentation

## **Management Accounting and Finance Decision Analysis**

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*Developed financial and managerial accounting proficiency to include: ratio and break-even analysis, financial structure, cost analysis, replacement of assets, and cash flow management;*

- Some case studies required determining overhead costs, internal rates of return (IRR), annuities, pay back periods, compound interest, minimum attractive rate of return (MARR), as well as present worth and future worth
- End of semester project required selecting an investment, analyzing the investment, and forecasting potential future projections
- For this class, I utilized Excel 2007 for the analysis and Word 2007 for write ups and reports

## **Program/Project Management**

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*Examine how teams can be organized, directed and monitored to complete relatively complex projects*

- how to perform projects in compliance with aggressive schedule and budget objectives
- studied project management of manufacturing and service industry projects developing an understanding of how management decisions are influenced by project plans and analysis of project process
- Topics include project management definitions, different organization structures, internal and external negotiation skills, conflict resolution, computer based network planning techniques, risk mitigation, controlling resources, writing proposals, and modern developments in project management techniques
- Project leader for my team's class project – implement onsite employer bases wellness program
- For this class, I utilized Excel 2007 for all analyses, Word 2007 for write ups and reports, and PowerPoint 2007 for in class presentations

## **Enterprise Information and Knowledge Systems Management**

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*Knowledge-based & web-based features in modern enterprise systems emphasizing database management, security, control, ethical, and social issues of enterprise systems;*

- Different types of enterprise systems and how they are used to manage an organization's processes
- Relationship among technology, organization, and management
- Re-engineering a business with enterprise systems
- End of semester project required improving upon an enterprise system; for my project, I developed an emergency call-in database to expedite operational efficiency in my department during times of equipment failure
- For this class, I utilized Word 2007 for write ups and reports, PowerPoint 2007 for in class presentations, and Access 2007 for the database I created

## **Writing Business Plans**

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*Development of business plan emphasizing market-driven and/or mission-driven product or service from the perspective of professional investors*

- Define the product or service and determine the competition, both direct and indirect
- Define and outline the market for the product as well as benefits to users of product or service
- Outline appropriate sales efforts
- Manufacturing - make verses buy decisions
- Establishing financial data that is realistic, justifiable, and consistent with industry realities
- Project leader for my team's class project – develop and implement online wellness service
- For this class, I utilized Excel 2007 for all analyses, Word 2007 for write ups and reports, and PowerPoint 2007 for in class presentations

## **Electronic Commerce**

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*Technology infrastructure, business models and concepts, and technological skills needed to build an E-commerce website*

- Marketing, communications, security and encryption, and payment systems in E-commerce/M-commerce
- B2B, B2C, B2B2C, C2B, B2E, C2C business models
- Financial transactions
- Advertising models
- Market niches
- End of semester report (MS Word 2007) was required in which I critiqued an E-commerce company's business model, market niche, product differentiation, advertising endeavors, price points, and retailing methods (click-n-mortar for example), webpage content and layout, ease of website use

## **Systems Approach to Human-Machine Systems**

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*Systems concepts and analytical tools applied to dynamic systems in which technologies and/or natural environments interact with human users, regulators, or designers*

- Concepts covered include: feedback, stability, chaos
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- Prepared an end of semester systems design study of an industrial, educational, or environmental device, technology, or management system
  - The system I discussed was the system I designed in my Enterprise Management course that I later developed for my department at work
    - The software applications I used were of Microsoft Office 2007 suite to include: Word, Access, PowerPoint
    - Additionally, I began using PHP and MySQL

### **Independent Seminar – Supply Chain Management and Logistics**

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*Master's project proposal discussion on technological-sociological problem:*

- Define the factors driving the development of supply chains
- Outlined the core functionality of a supply chain
- Role and impact a supply chain has on the competitive markets
- Partner integration and value chain
- Achievable markets, logistics, and globalization
- Sustaining a supply chain
- For this class, I utilized Excel 2007 for all analyses and Word 2007 for write ups and reports

### **Undergraduate Student, Tampa, FL**

**August 2001 – May 2006**

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*Undergraduate education included collection of data, statistical/error analysis, and modeling of that data*

- My bachelor of science in Physics prepared me for most any technological and/or analytical role
- Career relatable courses – calculus I,II,III, differential equations, linear algebra, complex systems analysis