

Hector M. Flores

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EDUCATION

MASTER OF SCIENCE IN INDUSTRIAL ENGINEERING *Cumulative GPA 3.77* **August 2011**

ARIZONA STATE UNIVERSITY, Ira A. Fulton School of Engineering, Tempe, Arizona

Concentration: Logistics, Productivity and Information Systems

Thesis: Opportunistic Fresh Produce Commercialization under Two-Market Disintegration

Relevant Coursework:

International Logistics Systems Data Mining Regression Analysis
Supply Chain Modeling/Analysis Financial Engineering Applied Stochastic Operations Research Modeling

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING *Cumulative GPA 3.85* **December 2009**

ARIZONA STATE UNIVERSITY, Ira A. Fulton School of Engineering, Tempe, Arizona

Minor: Business, W.P. Carey School of Business, Tempe, Arizona

Awards: Received various national and university level scholarship awards (upwards of \$10,000 per year)

EXPERIENCE

INTERNATIONAL LOGISTICS AND PRODUCTIVITY IMPROVEMENT LAB **January 2009 – Present**

Research Professional, Arizona State University, Tempe, AZ

Implementation of a Logistics Platform for the Distribution of Mexican Fresh Produce in the US

- Consulted the feasibility of restructuring Mexican farmers' supply chain distribution strategies of fresh produce in the US and additional secondary, international markets; produced a 315-page report that included 10-yr projected internal rates of return, NPV, revenues and costs under different implementation strategies
- Led the project's analysis and implementation process through its three phases: (1) Commercialization expansion to reach strategic consumption markets, (2) Extension of the commercialization reach to multiple domestic and international target markets, and (3) Vertical integration within the product's value chain to reach niche markets
- Coordinated analysis activities: depiction of the industry's trend and dynamics, market demand and share estimation, logistics and inventory analysis, financial projections, sensitivity analysis, strategic planning, and gap reduction between production source and prospective clients

Development of Nationwide Transportation Index within the Commercial Trucking Industry

- Developed methodology that monitors and predicts future national rate trends in the trucking industry for application in transportation benchmarking, data envelopment analysis and contract writing
- Applied various technical methods and analysis in the development process: logistics analysis, regression analysis, data mining techniques, and autocorrelation analysis

Impact of the Temporary Immigrant Farm Labor Workforce on the U.S. Agriculture Sector

- Identify and estimate the effects of the immigrant workforce on the domestic economy, in close collaboration with economists from the University of Pennsylvania and representatives from the Howard Buffet Foundation

HAMILTON SUNDSTRAND

May 2008 – December 2008

Intern, Engine & Control Systems, Aerospace Operation, Phoenix, Arizona

- Developed an information-based Kanban system for assembly line that integrates levels of production and inventory levels; incorporated product components for new Boeing 787 assembly line
- Led assembly time studies and analysis of workers on end item products with the purpose of facilitating assembly, eliminating product variance, and increase production

MEDTRONIC

August 2007 – January 2008

Intern, Manufacturing Operations, Tempe, AZ

- Developed an implementation plan for a new production layout that incorporated the company's output objectives, quality expectations and corporate values

SKILLS AND LANGUAGES

SOFTWARES: Proficient – MS Office, Arena, Java, MPL, Minitab, Weka, Matlab

Experience – Visual Basic, C++, SQL, R, ProModel

LANGUAGES: Fluent in Spanish (Native Speaker) and English

EXTRA-CURRICULAR ACTIVITIES

ASU Men's Soccer - Implemented training and organizational strategies to achieve both personal and athletic goals

Alpha Pi Mu Honors Society - Serve as member to organize activities that promotes the club and benefit the organization