Andrew Nicholas Mason

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Objective

Apply specialized knowledge of operations research, supply chain management and process optimization in a variety of industrial settings

Computer Skills

Statistical Software: R, Weka, Minitab, JMP   **Programming:** C++, Visual Basic, Python
Optimization: IBM-Ilog, AMPL, CPLEX, COIN-OR   **Other:** SAP, Arena, Microsoft Office

Work History

Arizona State University, Tempe, Arizona   *August 2011-Present*
Teaching/Research Assistant
- Analysis of auction mechanisms as viable coordination tools for agricultural supply chains
- Development of decision support tools for tactical planning of seasonal operations in agricultural systems through use of mathematical programming
- Analyzed the impact of labor availability on the profitability of farming operations on the micro and macro scale for the state of Yuma, AZ
- Explored the applications of logistics efficiency monitoring to an industrial setting and their impact on transportation planning and contract writing

Intel Corp., Chandler, Arizona   *June 2013 – August 2013*
Manufacturing engineer
- Researched and identified appropriate optimization tools for the management of queue time constraints in the wafer fabrication process
- Developed and validated a decision support tool to authorize the release of wafers into critical points of the manufacturing process while avoiding queue time constraint violations
- Developed, validated and delivered optimization-based decision tools to aid on strategic capacity and production planning

TIS Consulting Group., Hermosillo, Mexico   *May 2012-August 2012*
Consulting Intern
- Built and implemented optimization models to aid on large scale logistics decision-making for strategic solutions in fresh produce supply chains
- Developed and tested a novel methodology for monitoring the nationwide logistics performance of agricultural logistics in Mexico
- Provided specialized knowledge of stochastic processes and simulation towards empirical queuing models
- Identified and elaborated novel solution approaches at the planning phase of upcoming projects

Education

Industrial Engineering PHD Student
Arizona State University   August 2010- 2015
Tempe, AZ   Cum. **GPA 3.85/4.0**
BS in Industrial Engineering
Wichita State University   May 2010
Wichita, KS   **GPA 3.83/4.0**

Language Skills

English: Highly proficient   **Spanish:** Highly proficient