

RAVI AGRAWAL

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ACADEMIC RECORD

Master of Science, Industrial Engineering
University of Massachusetts, Amherst

GPA: 3.70/4
May-2017

Bachelor of Engineering, Electronics & Instrumentation Engineering
Chhattisgarh Swami Vivekanand Technical University, India

GPA: 3.50/4
May-2014

SKILLS

Core Strength Data Driven Decision Making, Teamwork, Process Development, Analytical Skills, Problem Solving, Supply Chain Optimization, Big Data

Technical Skills Python, SQL, R-Studio, Java, AMPL, SPSS, Lindo, MS Office (Word, Excel, Access & Power Point)

WORK EXPERIENCE

Research Assistant, Arbella Human Performance Lab, Amherst

January 2016–Present

- Responsible for designing simulator scenarios, experimental design, subject recruitment, data coding and analysis.
- Developed a training program using principles of CI which can improve the young driver performance by 30%.
- Using the JIT techniques to conduct experiments and minimized participant run time by 25%.

Process Engineer Intern, Lemken, India

January 2015–April 2015

- Initiated continuous improvement to develop ergonomic work centers and material handling processes.
- Developed Standard Operating Procedures, Kaizen and maintenance procedures for all new processes.
- Conducted a time study and created time keeping module to analyze project progress, reducing overall cycle time.
- Assisted with inspection coordination of materials and processes, quality control, inventory & cost control.
- Managed supply chain logistics and shipping of incoming materials, in-process inventory and finished products.
- Optimized by the analysis process creating ultrapactical tools using MySQL, Oracle SQL Developer, Tableau.

Supply Chain Intern, SAIL, India

May 2011–August 2011

- Identified continuous improvement strategies with the aid of Six Sigma, 5S technique and feedback generation.
- Implemented project management techniques & coordinated supply chain process improvement project & initiatives
- Analyzed supplier delivery performance data, trend definition & drafted visual representations of supplier performance.

PROJECTS

Logistics Cost Optimization and Management

September 2015–May 2016

- Successfully created a simulation model for a Toyota cross-dock facility/warehouse using AMPL.
- Optimized the trailer dock assignment processes, resulting shorter planning time and savings of \$60000/year.
- Workload balancing resulted in reducing forklift distance traveled by 5.8%.

Optimization of Food Production Process Using Arena

January 2016–May 2016

- Generated food production plan along with a flow chart suggesting continuous improvements.
- Optimized production process based on suggested improvements and reduced the customer wait time by 40%

Forecasting and Regression Analysis

September 2015–December 2015

- Analyzed the demand of the UMass, DC, made regression model for the customer
- Forecasted future number of customer coming to the UMass, DC.

ACHIEVEMENTS

- As Public Relationship manager, I managed a team of 50 in a national level technical event.
- Raised \$10,000 for the national robotics (SAMVID) event.