Rishabh Bhandawat

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EDUCATION

PhD in Industrial & Systems Engineering 2018-2021
University at Buffalo
Advisor: S. Casucci
Reserach Area: Food Equity Supply Chain and Impact on Health

MS in Industrial & Systems Engineering 2016-2018
University at Buffalo
Lab: Applied Operations Research Lab | Advisor: R. Batta
Thesis: Location Optimization for a Mobile Food Vending Facility

Bachelor of Technology in Mechanical Engineering 2012-2016
SRM University

WORK EXPERIENCE

Teaching Assistant 2018-Present
University at Buffalo

- Engineering Seminar EAS 199

Graduate Assistant Jan-Jul,2018
The Center for Industrial Effectiveness, University at Buffalo
Consultation for Upstate Niagara Cooperative

- Analyzed current and future product storage, material handling, and distribution needs for items flowing through the cooler
- Developed alternative cooler layout designs with a methodological guidelines for continued improvement and optimization.
- Developed a tool in Excel (using macros and VBA) to generate an improved truck load-out schedule that coordinates facility constraints, and customer needs based on daily order demand

Process Improvement Intern Apr-Dec,2017
CSM Bakery Solutions, Buffalo

- Analyzed machine downtime and line throughput increase to calculate savings from the improvement project conducted.

- Developed an Access database and user interface for labor instructions based on product and machine line.
- Identified multiple control points and also conducted HACCP (hazard analysis and critical control points) tear down for one machine line and updated cleaning procedures for all machine lines in the plant.

Project Intern Summer,2015

Bharat Aluminum Company Limited, Korba, India

Green Anode Plant

- Project: Enhance the life of main gear box by external cooling arrangement
- Improved the cooling arrangement for the ball mill gear box.
- Reduced maintenance time by an avg. of 7 hrs./wk. & temperature by an avg. of 20°C.

Intern Dec-Jan,2014

Jindal Steel and Power Limited, Raigarh, India

Blast Furnace

- Acquired knowledge of iron ore processing and working of blast furnace.
- Involved with various day to day maintenance - both preventive and breakdown type.

Summer Intern Summer,2014

Adani Power Limited, Ahemedabad, India

- Gained knowledge of the power business from generation to distribution in India.
- Analyzed difference in efficiency & working between a super-critical and sub-critical plant.

PUBLICATIONS AND INVITED PRESENTATIONS

Location Optimization for a Mobile Food Vending Facility In-progress

R.Bhandawat, R. Batta

- Formulated and solved location optimization model for a mobile food vendor to maximize profits based on service quality decisions (cuisine, price and other service criteria) from online yelp reviews and from geographic and demographic data, demonstrating a case study based from New York City metropolitan area.
- Developed a mixed integer programming model based on time discretization. Due to the computational limits of the MIP, several heuristic strategies are developed.

Location & Pricing of a Mobile Food Vending Facility using Public Data 2017

R. Batta, R. Bhandawat

Invited Presentation: 2017 INFORMS Annual Conference - Advances in Location Theory

PROJECTS

Filter Pressure Drop Testing at Precision Plus, Buffalo May-Jul,'17
Project Manager

- Lead a team of undergraduates that developed a testing equipment to provide characteristic pressure drop curves for various vacuum pump filters.
- Created a simple test apparatus to test samples (wet or dry) and the interface could use a desktop.

Operation Scheduling at Buffalo Wire Works, Buffalo Feb-May,'17
Project Manager

- Understood the plant layout and the operation flow for PFX machine line.
- Developed a tool to reduced job delays by optimizing the scheduling and job flow & reducing ideal time using an MIP.

Signage & Circulation at Health Science Library, University at Buffalo Aug-Dec,'16
Advisor: H. Kelly

- Conducted a signage audit to identify the scope of the issue and categorized problems.
- Improved way-finding and navigation to find books & facilities in the library.
- Reduced circulation time for the books at the library using six sigma and lean tools.

Liquid Nitrogen Powered Vehicle 2016
Undergraduate Senior Design Project

- Understood properties of liquid nitrogen and its usage in a vehicle.
- Reduced shortcomings of the vehicle in a humid environment by using double tubing.

SKILLS AND ABILITIES

Software and Utilities

- *Any Logic*
- *Arena*
- *Pro-e / Creo*
- *Gurobi*
- *Latex*
- *Minitab*
- *@Risk*
- *VBA*

Programming Languages

- *Matlab*
- *Python*
- *R Programming*

AWARDS AND SCHOLARSHIPS

Leadership in Excellence Scholarship Award 2018
University at Buffalo Engineering Alumni Association

Academic Achievement Award 2017
Department of Industrial and Systems Engineering, University at Buffalo

LEADERSHIP AND VOLUNTEERING

Inclusive Excellence Leadership Council - Student Committee 2018-Present
University at Buffalo

Strategic Planning Committee 2018-Present
Department of Industrial and Systems Engineering, University at Buffalo

INFORMS
Diversity and Inclusion Committee 2017-Present
Vice-President Communications INFORMS Student Chapter 2018-2019

***o*STEM**
Annual Conference Planning Committee 2017-Present
President oSTEM Student Chapter 2018-2019

Facilitator for "Science is Elementary" 2016-Present
University at Buffalo