Bhawesh Sah

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Education

PhD, Industrial & Systems Engineering (GPA: 3.89/4) Aug 2015 – May 2019
State University of New York at Binghamton, Binghamton, New York

Fellow, Decision Sciences May 2014 – Jun 2015
Indian Institute of Management, Lucknow, India

M-Tech, Industrial Engineering & Management (GPA: 9.01/10) Aug 2012 – May 2014
Indian School of Mines, Dhanbad, India

B-Tech, Mechanical Engineering (Percentage: 64/100) Aug 2007 – May 2011
Uttarakhand Technical University, Dehradun, India

Relevant Coursework

Design of Experiments	Operations Research	Fundamentals of Health Systems
Advanced Topics in Supply Chain	Project Management	Applied Multivariate Data Analysis
Applied Probability and Statistics	Accounting for Managers	Quality Assurance for Engineers
Fuzzy Logic	Machine Learning	Data Analysis

Professional Experience

Graduate Research Assistant, Computational and Operational Research (CORE) lab Jan 2018 – Present
Advisor: Prof. Sung Hoon Chung

- Study the barriers and enablers for implementing drones for logistics
- Development of heuristics for the Traveling Salesman Problem with Drone (TSPD)
- Robust optimization
- Mathematical modeling and data analysis

Graduate Research Assistant, Bennett Corporation Jun 2017 – Jan 2018
Advisor: Prof. Sung Hoon Chung

- Improving the Kanban Replenishment Process through application of Lean principles
- Reporting Key Performance Indicators (KPIs) weekly and daily
- Preparing daily and weekly metrics to report productivity
- Warehouse capacity planning based on forecasted production data
- Order batching and aisle balancing in the warehouse
- Modeling of the supply chain for a 3PL firm

Graduate Research Assistant, SMTC Corporation Aug 2016 – Apr 2017
Advisor: Prof. Nagen Nagarur

- Final inspection using 3D solder paste inspection machine
- NPI Engineer for a medical product. Prepared DMR, Training Matrix and LHR
- Worked to meet requirements of ISO 9001, ISO 13485
- Made quality reports (Daily and Weekly)

PhD Fellow, State University of New York at Binghamton May 2016 – Aug 2016
Advisors: Prof. Nagen Nagarur, Prof. Sung Hoon Chung

- Large scale optimization, Robust supply chain modelling
- Agent based simulation

Teaching Assistant, State University of New York at Binghamton Sep 2015 – May 2016
Courses: Applied Probability and Statistics, Operations Management and Supply Chains

- Graded Homework, Quizzes, Mid-Term and End-Term
- Gave two guest lectures (Linear Programming, Bullwhip Effect)

Internship at Jindal Steel & Power Ltd. May 2013 – Jul 2013

- Developed simulation models using Arena to explain various loading processes in the company which were very useful in identifying bottlenecks and delays
- Conducted time study of the vehicles used in the loading process

Research Interests

Modeling drone systems	Simulation for Process Improvement	Facility Layouts
Pharmaceutical Supply Chain	Machine Learning	Multi Criteria Decision Making

Technical Certificates

Lean Six Sigma Green Belt, State University of New York at Binghamton Jan 2016

Computer Skills

Statistical Analysis: Minitab, SPSS, SAS, Tableau
Simulation: Arena
Optimization: Gurobi, CPLEX
Programming: R, Julia, Python, VBA
General Computer Knowledge: MS Office, Microsoft Excel, Visio, SQL

Selected Publications

1. Sah, B., R. K. Mondal, and S. Mondal (2013). In Plant Logistics: A Case Study of The Turnaround Process of Trailers in a Steel Plant. International Journal of Computing 3(4), 305-309.
2. Sah, B., Titiyal, R., & Sonia. (2017). A goal programming and simulation based study for overall process improvement in an Indian hospital. International Journal of Services and Operations Management, 27(4), 439-456.
3. Sah, B., N. Dhende, P. Sawant, S. Salunke (2016). A Model for Supply Chain Optimization of An Engineering Product – An Indian Scenario. Proceedings of The Institute of Industrial Engineers Annual Conference, Anaheim, CA, 21 – 24 May.
4. Halawa, F., Sah, B., Srihari, K., & Chung, S. H (2018). A Milk-run Approach of Truck Scheduling Problem: Mathematical Formulation and Genetic Algorithm. Proceedings of The Institute of Industrial Engineers Annual Conference, Orlando, FL, 19 – 22 May.
5. Li, Y., Sah, B., Halawa, F., & Chung, S. H (2018). Inventory Rebalancing for One-Way Electric Vehicle Sharing Systems. Proceedings of The Institute of Industrial Engineers Annual Conference, Orlando, FL, 19 – 22 May.

Honors and Achievements

- 2016 Provost Fellowship, State University of New York at Binghamton Summer 2016
- 2017 Provost Fellowship, State University of New York at Binghamton Summer 2017
- 2018 Provost Fellowship, State University of New York at Binghamton Summer 2018