

Labiba Noshin Asha (she/her)

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Education

- **Ph.D. Student in Industrial Engineering**
(August 2023 – Expected Graduation date, May 2028)
Department of Industrial Engineering
University of Arkansas
Fayetteville 72701, AR, USA
GPA: 4.00 out of 4.00
- **M.S. in Industrial Engineering and Management**
(August 2021 – July 2023)
Department of Industrial & Manufacturing Engineering
North Dakota State University
Fargo 58102, ND, USA
GPA: 3.857 out of 4.0
- **B.S. in Industrial and Production Engineering**
(January 2014- April 2018)
Khulna University of Engineering & Technology
Khulna-9203, Bangladesh
GPA: 3.56 out of 4.0

Research Interest

Operation Research: multi-objective optimization, meta-heuristic approaches, and mixed-integer programming in supply chain network and logistics activities.

Research Experience

Research Assistant

- Department of Industrial Engineering, University of Arkansas
- Department of Industrial and Manufacturing Engineering, North Dakota State University
 - **Summer 2023:** The project was to assess and measure the sustainability risks associated with pipeline infrastructure. Link: <http://dx.doi.org/10.3390/su151914229>
Fund Details: *National Science Foundation (NSF) EPSCoR RII Track-2 Program under the NSF award # 2119691 and U. S. Department of Transportation PHMSA under Grant No. 693JK3250009CAAP*
 - **Summer 2022:** The project was to apply multi-objective optimization techniques considering economic and environmental objectives simultaneously in order to enhance the efficiency of crop harvesting operations within the North Dakota Corn Supply network. Link: <http://dx.doi.org/10.3390/su141912790>
Fund Details: *North Dakota Corn Council (NDCC) under grant # FAR0034036*

Teaching Experience

Teaching Assistant

Department of Industrial & Manufacturing Engineering, NDSU

Courses Assisted:

- IME 460: Evaluation of Engineering Data (Fall 2022, Spring 2023)
- IME 450: Systems Engineering and Management (Spring 2022)
- IME 485: Industrial and Manufacturing Facility Design (Fall 2021)

Work Experience

- Internship (March 2019- June 2019)
Decathlon Bangladesh
Production Leader- Supply
- Production Leader- Supply (July 2019- July 2021)
Decathlon Bangladesh
Key Responsibilities: capacity allocation, production planning, order management, forecast analysis, shortage identification, uncertainty & risk management, project management.

Journal Publications

1. Asha, L. N., Huang, Y., Yodo, N., & Liao, H. (2023). A Quantitative Approach of Measuring Sustainability Risk in Pipeline Infrastructure Systems. *Sustainability*, 15(19), 14229. MDPI AG.
2. Asha, L. N., Dey, A., Yodo, N., & Aragon, L. G. (2022). Optimization Approaches for Multiple Conflicting Objectives in Sustainable Green Supply Chain Management. *Sustainability*, 14(19), 12790. MDPI AG.
3. Noshin, L., Sen Gupta, H., & Kibria, M. G. (2018). Office chair design: a systematic approach of ergonomic design based on the anthropometric measurement of Bangladeshi people. *International Journal of Research in Industrial Engineering*, 7(2), 224-234. doi: 10.22105/rirej.2018.128451.1040
4. Gupta, H.S., Noshin, L. and Sultana, N. (2017) Multipurpose Table Lamp: A Functional Improvement of a Table Lamp. *International Journal of Mechanical Engineering and Automation*, 4, 138-148.

Conference Proceeding

1. Asha, L.N.; Pirim, H.: A Mathematical Programming Model for Bi-objective Covid-19 Vaccine Distribution, IISE Annual Conference and Expo, New Orleans, Louisiana 2023
2. Gupta, H. S.; Asha, L.N.: Mathematical Model Formation for Optimizing Transportation Cost for a Multi-Echelon Downstream Supply Chain, 5th NA International Conference on Industrial Engineering and Operations Management, Detroit, Michigan 2021.

Technical Skills

Python, AMPL, CPLEX, MATLAB, JMP, AutoCAD, SolidWorks, Arena

Linguistic Proficiency

Bengali (Native Language)

English (Fluent Working Proficiency)

Award

Dean's List for outstanding academic performance from Khulna University of Engineering & Technology