

ABIDA ISLAM

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EDUCATION

Bachelor of Science: Industrial Engineering

University at Buffalo, The State University of New York,
Dean's list in Spring 2022

December 2023
GPA: 3.73/4.0.

WORK EXPERIENCE

Operation Intern, Alkegen, Buffalo, NY: June 2023 - Present

- Executed pipe labeling project in accordance with 5S, kaizen ideologies for continuous improvement. Produced a total of 300 labels to facilitate identification and tracking of more than 50 pipes.
- Optimized CVA noise levels through collaborative efforts, including overseeing noise studies and installing acoustic panels, resulting in a reduction from 90.2 dBA to 85.6 dBA. Collaborated with senior process engineer on project.
- Implemented 3 visual aid boards for defects in new battery line for quality improvement.
- Accompanied health safety engineer in kaizen meetings and assisted in designing flowchart diagrams for total 4 stations in new battery line.

Student Transit Ambassador, SUNY at Buffalo, Buffalo, NY: August 2022 - September 2023

- Monitored condition of vehicle, and cleanliness to prevent potential safety hazards and security concerns. Additionally, prepared daily reports regarding unusual incidents, safety and security incidents, and other activities.
- Improved UB community transportation by ensuring a minimum of 10 bus advertisements through systematic inventory and prompt communication with transportation office for extra ads when necessary.

Engineering Intern, P&G Steel Products Co, Buffalo, NY: November 2022 - May 2023

- Improved P&G Steel's quality system for major clients (GM, Titan, Carriers, Motor Components, etc.) with 50 work instructions, 23 quality alerts, and 13 inspection instructions for CMM programming, and CNC machines.
- Created lockout/tagout procedures for all 14 stamping presses in plant to protect operators from equipment capable of causing injury due to unexpected energization.
- Designed and produced 50 tags for lockout/tagout procedures to reduce cost associated with implementing lockout/tagout procedures.

Operation Intern, Kee Safety Inc, Buffalo, NY: May 2022 - August 2022

- Conducted time studies for 19 different products to develop a scheduling tool helped Kee Safety enhance employees' schedules to manage costs more efficiently.
- Updated 5000 products' HTS (Harmonized Tariff Schedule) code in Kee Safety's ERP system TakeStock, helped Kee Safety's purchasing department determine duty and tax rate payable on products.
- Established an effective nonconformance management system, expected to reduce costs by 12%, through development of comprehensive SOPs and user-friendly non-conformance logs, fostering continuous quality improvement.

Student Engineering Consultant, Beds For Buffalo, Buffalo, NY: August 2021 - May 2022

- Conducted an analysis and produced a recommendation report proposing a U-shaped manufacturing layout as a viable solution for space constraints, potentially optimizing space utilization by up to 54.7%.
- Improved bed-building process for volunteers and recipients with detailed assembly instructions and an animated video, aiming to reduce assembly time to 3 minutes.

PROJECT

University at Buffalo: Online Simulation Operation

- Managed shipping, receiving, and production operations for a clothing manufacturing company, attaining a net worth milestone of \$50,000.
- Forecasted contracts to pursue and optimize receiving, production, and shipping departments accordingly and attained a commendable 12% increase in profitability.

SKILLS

Computer Skills: Microsoft Word, Microsoft Excel, Pivot Table, Microsoft PowerPoint.

Software Skills: Gurobi, Python, Matlab, R-studio, @Risk, Arena, Minitab, Jupyter Notebook, Solidworks 3d experience, Fusion360.

Language:- Bengali: Fluent English: Fluent Hindi: Speak.

INVOLVEMENT

- Member: Tau Beta Pi, Alpha Pi Mu, Institute of Industrial and Systems Engineering