

Education

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| • Master of Science in Manufacturing Engineering Technology
Minnesota State University, Mankato | 2024 - 2025
Mankato, MN |
| • Bachelor of Science in Mechanical Engineering
Minnesota State University, Mankato | 2018 - 2023
Mankato, MN |

Work Experience

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| Reliability Engineer | dsm-firmenich
New Ulm, MN | Feb 2023 - Present |
| <ul style="list-style-type: none">• Working in the dsm-firmenich site which manufactures flavors using Spray dry, blending, and reactions.• Develop and execute comprehensive plant reliability strategy to improve equipment availability and reliability through the implementation of continuous improvement and defect elimination processes such as RCA (Root Cause Analysis) and RCM (Reliability Centered Maintenance).• Interface with maintenance supervisor to validate equipment performance, maintain and document all training requirements, and implement proactive maintenance practices while identifying and standardizing critical spare parts.• Designed/Assembled parts in CREO and Solidworks and performed FEA to upgrade various machines.• Define PM and PdM procedures and frequency of implementation, optimize PM procedures and provide training information, and interface with the maintenance planner to ensure consistency with asset performance while entering procedures and intervals into CMMs.• Provide periodic asset utilization accounting and KPI data, initiate and implement maintenance-related small capital projects to improve process efficiency, upgrade utility systems, or enhance operational safety, and support maintenance and engineering groups as needed. | | |
| Manufacturing Engineering Intern | Bombardier Recreational Products (BRP)
St. Peter, MN | May 2022 - Aug 2022 |
| <ul style="list-style-type: none">• Worked in the Alumacraft Boat Company under the marine group of BRP.• Applied lean manufacturing principles to improve the operations and apply DMAIC methodology to identify root cause and implement permanent solution.• Assisted on projects to improve assembly processes to meet cost and quality requirement.• Designed/Assembled parts in CREO and Solidworks and performed FEA to upgrade various machines.• Worked closely with Engineers, technicians, and labors to meet the goal of manufacturing 17 boats per day.• Worked with Quality Engineers to ensure the product fulfils quality standers, meet safety regulations, and satisfy client requirement. | | |

Continuous Improvement Experiences

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- Successfully used DMAIC principles to plan and execute various projects in dsm-firmenich to improve the process and achieved huge cost savings and reduction in downtime.
 - Completed graduate level six-sigma green belt course and completed DMAIC project for that class.
 - Completed graduate level lean manufacturing course and completed a research project for that class.
 - Six-sigma green belt certification in process.

Relevant Coursework

- Manufacturing Processes, Lean Manufacturing, Six Sigma for industrial perspective (Green belt level), Operational Management, Design of experiment, Advanced Project Management

Research/ Project Experience

Application of Lean Manufacturing in the Food Powder Products Sector

Jan 2024- April 2024

- Researched on the application of the lean manufacturing in the food powder products sector for a graduate level lean manufacturing class
- Determined how lean manufacturing is being used on the food powder plants.
- Investigated on the areas where the powder food industry could be improved in terms of lean principles.
- Wrote a research paper on the research findings and suggestions.

Skills

- Software: AutoCAD, DraftSight, BricsCAD, CREO, Simulate, MATLAB, SolidWorks, Simulink, Office 365, MSOffice, MS Excel
- Communication/Organization: Quick learner, teamwork, self-starter, detail oriented, and customer service.
- Technical: Reliability Centered Maintenance (RCM) , Root Cause Analysis (RCA), 5S, 6-Sigma, Lean Manufacturing, Continuous Improvement, DFMA, GD&T,.
- Equipment: Solder, Drill Press, CMM, Brazing, lathe, Mill, and Weld.

Leaderships

Treasurer

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

Mankato, MN (May 2022 - Dec 2022)

- Served as a treasurer in ASHRAE, Mankato Chapter to create a budget plan, report, and conduct fundraising activities.
- Planned events and work with guest speakers to plan for the timing of an event.
- Attended various conference organized by other chapters of ASHRAE.
- Conducted various workshops including the Revit workshop.

President

Nepalese Student Community (NeStCom)

Mankato, MN (May 2019 - May 2021)

- Served as the president for 150+ members and was responsible for conducting meetings each week.
- Acted as an in-charge to create budget report to be presented to the general members.
- Responsible for managing events such as estimating the number of guests, and gathering supplies)