

Education

- **Master of Science in Manufacturing Engineering Technology** **2024 - 2026**
Minnesota State University, Mankato Mankato, MN
- **Bachelor of Science in Mechanical Engineering** **2018 - 2023**
Minnesota State University, Mankato Mankato, MN

Work Experience

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| Reliability Engineer | dsm-firmenich
New Ulm, MN | Feb 2023 - Present |
| <ul style="list-style-type: none">● 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 team to validate equipment performance and implement proactive maintenance practices while identifying and standardizing critical spare parts.● Define PM and PdM procedures and frequency of implementation, optimize PM.● Provide assistance with the Capex/Opex projects planning and execution. | | |
| Manufacturing Engineering Intern | Bombardier Recreational Products (BRP)
St. Peter, MN | 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. | | |
| IT Tech | MNSU, Mankato | 2019-2022 |
| <ul style="list-style-type: none">● Installed cameras, microphones, speakers, and Zoom PCs all over the campus classrooms and make a connection using an IP mixer to make sure they are all connected in a single system.● Troubleshoot the problems in projectors, smartboards, and doc cam and fix them.● Expert in creating, managing, escalating, and resolving Cherwell tickets by communicating with clients and staffs.● Provide exceptional customer service which includes understandably communicating technical information, Provision network resources within Active Directory including printer access, admin access, and server access.● Act as a liaison between end-users and management.● Expert in creating, managing, escalating and resolving Cherwell tickets by communicating with clients and staff Utilize remote tools such as TeamViewer, Zoom, and VPN to solve issues remotely | | |

Continuous Improvement Experiences

- Lean six sigma green belt certification pending from dsm-firmenich and 6sigma US.
- Successfully used DMAIC principles to plan and execute various projects in dsm-firmenich to improve the process and achieved cost savings and reduction in downtime.
- Comfortable with continuous improvement techniques such as 5S, value stream mapping, standard work, visual management, DMAIC, statistical analysis, and design of experiments.
- Research focuses on lean six sigma, predictive maintenance, and preventative maintenance.
- Completed graduate level classes such as six sigma, lean manufacturing, project management, operational management, and design of experiment
- Fluent with data analysis tools such as Excel, Minitab, Matlab, R-Lab, Python.

Research 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: Minitab, R-Lab, MATLAB, Python, MS-Project, AutoCAD, BricsCAD, DraftSight, CREO, Simulate, SolidWorks, Simulink, Office 365, MSOffice, MS Excel
- Technical: Reliability Centered Maintenance (RCM) , Root Cause Analysis (RCA), Ishikawa (Cause and Effect/ Fishbone), ABS Methodology, FMEA, 5S, 6-Sigma, Lean Manufacturing, Continuous Improvement, DMAIC, Value, Stream Mapping, DFMA, GD&T, DOE

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.

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)

Certifications

- Lean Six Sigma Greenbelt certification pending
- Certified EIT from Minnesota board of AELSLAGID after successfully completing Fundamentals of Engineering (FE) test