

Education

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| ● Master of Science in Manufacturing Engineering Technology
Minnesota State University, Mankato | 2024 - 2026
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. | | |
| Student Tech | IT Solutions, MNSU
Mankato, MN | Sept 2019 – Dec 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.● Troubleshooted 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. | | |

Research/ Project Experience

Investigation of pulsed eddy current for multi-target non-destructive testing

Aug 2020- April 2021

- Investigated the potential of Pulsed Eddy Current (PEC) techniques for multi-target Non-Destructive Testing (NDT).
- Utilized COMSOL to simulate an experiment and LabVIEW for testing sensors and amplifiers.
- Fabricated parts using lathe, mill and vertical band saw for the setup of the experiment.

Awarded \$2000 foundation grant from the Undergraduate Research Center to conduct the research.

Combat Robot Project

Aug 2021- April 2022

- Designed and build a combat robot to compete on the National Robotic Challenge combat robot beetle weight category and won a Bronze Award.
- Programmed Arduino, motor controller and ESCs to control the drivetrain and weapon of the robot.
- Made the detailed circuit diagram and block diagram to model the signal and current flow.
- Worked with other members to make detailed CAD design, perform FEA analysis, and fabricate every part in the lab.

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, 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)