

NIPAM SHAH

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OBJECTIVE

A passionate mechanical engineer with strong analytical and communication skills, AutoCAD and SolidWorks proficiency, and experience working collaboratively in project teams. Detail-oriented, organised, and seeking a challenging position in the engineering field.

PROFILE

- A strong working knowledge of technology, techniques, and best practices for designing mechanical equipment using AutoCAD and SolidWorks.
- Possess excellent technical knowledge in addressing operational issues, processing and interpreting test results, directing specialized procedure and work practices, and analyzing technical data.
- Crafting meaningful conversations to drive results and build strong relationships with clients.

EDUCATION

Master of Engineering, Mine - Mechanical Engineering.

Sep 2021 – Dec 2022

Laurentian University | Sudbury, ON, Canada.

- Acquired the ability to analyze all aspects of project management from product design to development.

Bachelor of Engineering, Mechanical Engineering.

Aug 2017 – Jul 2021

Gujarat Technical University (GTU) | Ahmedabad, Gujarat, India.

SKILLS

- **Tools/Software:** AutoCAD, Microsoft Office 365, SolidWorks, Microsoft Excel (advanced), MATLAB, 2D and 3D plans, Microsoft SharePoint, QCAD.
- **Technical skills:** Product design and development, technical reports, evaluating machine condition, Layered Process Audits, P & ID, cost analysis, Project management, technical drawings, SPC chart, GD & T, Flow analysis.
- **Certifications:** Microsoft office, MATLAB Onramp, AutoCAD, CSWA (Certified SolidWorks Associate), CSWP (Certified SolidWorks Professionals), Sheet Metal and Weldments, Surface Miner, WHMIS, Confined Space Entry, Transportation of Dangerous Goods for Driver, Safe Work Practices, Fire Extinguisher Awareness, Lock out and Tag out awareness, Chemical Hazards, Cote gold project site general orientation, Accident and Incident Investigation awareness, Supervisor Health and Safety Awareness in 5 steps, Worker Health and Safety Awareness in 4 steps.

PROFESSIONAL EXPERIENCE

Mechanical EIT

Mar 2023 – Present

BME Mining Canada, Sudbury, ON, Canada

- Utilize SOLIDWORKS and AutoCAD to draft engineering drawings, ultimately leading to a 7% boost in manufacturing process efficiency.
- Skilled in creating P&ID drawings, showcasing meticulous attention to detail and expertise in illustrating complex processes and instrumentation.
- Interpret the project model with managers to ensure cost requirements, scheduling, and supplier capabilities across materials were aligned with clients' needs.
- Assemble technical documents and gave presentations to clients that bolstered trust and facilitated successful negotiations.

- Construct spreadsheets utilizing MS Office 365 for benchmarking projects and streamlining operations, decreasing deficiencies by **4%**.
- Collaborate with fabricators and vendors to create and check the design, materials, and machines' availability.

Mechanical Project Engineer

Dec 2020 – Aug 2021

Aastha Engineering Co., Gujarat, India.

- Performed detailed root cause analysis on production problems, resulting in the documentation of over **50+ faults** and the generation of daily reports for trends tracking.
- Leveraged broad knowledge on machining processes to accurately analyze complex drawings from 10 vendors and machinists, contributing to a redesigned product with **30%** improved accuracy.

ACADEMIC PROJECT

Detection of bearing fault using vibration analysis (Team Lead)

Nov 2020 – Jul 2021

- Established data parameters for the project based on ASME standards & utilized equipment including smart balancer, RPM meter, & SPC chart to accurately detect machine faults.
- Synthesized frequency vs. time, velocity vs. time graphs and frequency vs amplitude excel sheets to analyze vibration patterns & optimize system performance.
- Created 3D modelling drawings and video using SolidWorks to visualize machinery output and cost-effectively analyze operating system operations by identifying potential inefficiencies, resulting in **25%** decrease in maintenance costs.

ORGANIZATIONAL SKILLS

Tech Engineers 2019 | Gujarat Technical University

Jan 2019 – Mar 2019

- Delegated to manage two engineering events.
- Coordinated and managed various aspects of logistics, fund-raising, and promotions to make the event successful.
- Supervised a committee of 15 student members and led committee meetings.