Ronak Mistry

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Objective: Passionate Mechanical Engineer with a strong background in design and quality control, specializing in the optimization of manufacturing processes. With a solid foundation as a mechanical engineering graduate and two years of industry experience, I am driven by a relentless pursuit of excellence in both design and manufacturing.

Power Bus Way Ltd **Brampton, ON**
Junior Mechanical Engineer April 2023 – present

- Interpret mechanical design drawings and specifications.
- Use Autodesk Inventor to create and modify design drawings.
- Generate models within 3D workspace.
- Create/modify 2D & 3D drawings.
- Work with 3D scans and point cloud models
- Prepare product layout and approval drawings.
- Ensure standard design and drawing procedures are followed.
- Prepare component manufacturing drawings for production.
- Prepare installation manuals and arrangement drawings.
- Follow projects through manufacturing processes ensuring proper production and assembly of components.
- Provide manufacturing and assembly input.
- Provide input to the design of product prototypes and final product designs.
- Perform additional duties as required.
- Prepare and interpret conventional and computer-assisted design (CAD) engineering designs, drawings, and specifications for machines and components, power transmission systems, process piping, heating, ventilating and air conditioning systems
- Prepare cost and material estimates, project schedules and reports
- Conduct tests and analyses of machines, components, and materials to determine their performance, strength, response to stress and other characteristics

Technical assistant – Centennial college **Scarborough, ON, Canada**
Tool crib / lab assistance *September 2021 – April 2023*

- Handling and finishing the raw material for the students of machine shop.
- Handled problems and issues of students on machine shop floor and commuting between students and faculties.
- Determining the optimal manufacturing processes and equipment needed.
- Develop detailed cost and time estimates for producing the student project in the most cost-effective manner.
- Research and analyze process improvement opportunities in collaboration with machine and raw material.
- Programming, CNC setup, CNC operation, preventive maintenance, and handling troubleshooting
- Experienced in performing in-process inspections, manufacturing parts from various materials, and documenting processes in Machine shop for Lathe and Mills.
- Knowledgeable in G-Code and M-Code, blueprint reading, and Mastercam
- Construct part and tool geometry suitable for NC programming using Mastercam.
- Able to create CNC programs for machining parts, ensuring accuracy and adherence to schedule and cost targets.
- Prepare machine setup sheets and special operator instructions for CNC programs.
- Implement machine adjustment or calibration procedures to address machine deficiencies and reduce equipment downtime.
- Apply machining concepts from 3-axis to 5-axis NC using CAD type programs and able to operate it.
- Excellent Knowledge of **Solidworks 2022, Autodesk Inventor2022 and Mastercam2022.**
- Worked as a CMM Lab instructor assistant for Quality Assurance Course

Larsen & Toubro **Gujarat, India**
Design Engineer *May 2019 – Sept 2021*

- Interpreted mechanical design drawings and specifications for various projects.
- Generated models within a 3D workspace to aid in design development.
- Created and modified 2D & 3D drawings for various projects in the Solid works.
- Prepared product layout and approval drawings for client approval.
- Ensured that standard design and drawing procedures were followed for all projects.
- Prepared component manufacturing drawings for production, ensuring that they were accurate and detailed.
- Provided input to the design of product prototypes and final product designs.
- Prepared BOM based on projects requirement and uploaded into ERP (SAP) system, resulting in improved
- tracking and inventory management.
- Occasionally traveled to job site locations to oversee installation and/or assembly processes.
  Produced standard manufacturing drawings of high-demand equipment, reducing future work hours

EDUCATION

Centennial College of Applied Arts and Technology **Scarborough, ON, Canada**
Diploma in Mechanical Engineering Technology- Industrial (GPA: 3.75) *Graduation Date: April 2023*

Birla Vishvakarma Vidhyalaya **Anand, Gujarat, India**
Bachelor in Mechanical Engineering (GPA: 7.65/10) *Graduation Date: May 2019*

SKILLS & INTERESTS

Professional Certification: Smart Serve Certified | Siemens PLM NX 9.0 Certified | CSWA (CertifiedSolidworks Associate) Certified.

Technical Software Skills: Solidworks, Siemens NX 9.0, Mastercam, AutoCAD.

Microsoft Office: Word, Excel, PowerPoint

Soft Skill: Punctual, Team player, Problem Solving, Research Driven, Creative, Flexible.

Interests: Analytics, Product Design, Technology Enthusiast, Basketball, Travelling.

Driving License: G class

ACADEMIC PROJECTS

MILLING FIXTURE **3rd Semester @ Centennial College**

- Acquired skills in 3D modeling and design using SolidWorks, including creating detailed technical drawings and assembly instructions.
- Improved ability to work in a team environment by collaborating with classmates and professor to develop a functional and safe design.
- Developed ability to solve problems and troubleshoot issues that arise during the manufacturing process.
- Learned the importance of following safety regulations and industry standards in the design and production oftools and fixtures.

ACETYLENE AS A ALETERNATIVE FUEL IN IC ENGINE **4TH Year Project in bachelor's degree**

- Acetylene as an alternative fuel in motorcycles offers improved performance.
- It provides better energy efficiency compared to conventional fuels.
- Acetylene combustion results in cleaner exhaust emissions, reducing harm to the environment.