Gokhul Abbayi

Mechanical Engineer | Co-op | E.I.T

+1 (780) 668 3012
gokhul@ualberta.ca

HIGHLIGHTS OF QUALIFICATIONS

- 2+ years of experience in using advanced functions in Excel to collect and manage large datasets
- 2+ years of experience in performing completeness and quality checks of engineering systems database
- Proven ability to identify, analyze and creatively solve problems through data analysis
- Operational experience and continuous improvement oriented
- Excellent interpersonal and communication skills, and a demonstrated willingness to work in a team environment with diverse team members

EDUCATION

Bachelor of Science in Mechanical Engineering   **SEP 2011 - APR 2016**
    University of Alberta, Edmonton AB

WORK EXPERIENCES

NOVA Chemicals, Red Deer, AB   **JUL 2019 - APR 2020**
Junior Engineer

- Saved workhours by creating a system to automatically generate equipment datasheet PDFs from a large dataset containing manufacturer information using Excel Macros.
- Validated technical information on critical engineering documents (P&IDs and datasheets)
- Performed field-visits to verify the status of 9000+ mechanical and instrumentation equipment; spearheaded the project to 96% completion
- Created redlines (corrections on P&IDs and datasheets) under the direction of process engineers to maintain the accuracy and integrity of NOVA's database
- Conducted data integrity checks, validated, and searched for information in the document management databases (SPF, SAP)

Aurora Cannabis, Edmonton, AB   **FEB 2019 - JUN 2019**
Dry Room Data Analyst

- Developed an Excel-based climate control tool to monitor temperature, humidity, moisture, and CO_2 levels to optimize the drying process of 30 dryers
- Collected and analyzed climate control data to evaluate the performance of dryers to accommodate a variety of products and prevent them from going to waste
- Visualized climate control data to communicate the areas needing improvement with the Operations Manager and the respective teams
- Improved the training process for 300 employees by collecting data and identifying gaps in scheduling
- Maintained the quality of products by recognizing and responding to plant pathogens and pests throughout the products lifecycle

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City of Edmonton Fleet Services, Edmonton, AB   **JAN 2015 - AUG 2015**
Student Project Engineer

- Assisted fueling department with tracking and managing fuel usage and storage using Excel spreadsheets
- Preformed economic feasibility analysis on the implementation of new equipment in 100+ EPCOR trucks
- Delegated information between different stakeholder to create informative technical documents such as failure analysis and procurement reports
- Designed custom shop equipment using SolidWorks and installed in 300+ Edmonton transit buses
- Conceptualized and implemented a year-long procedure for testing multiple prototypes of equipment used on fleet vehicles.
- Successfully lower maintenance cost by implementing modifications to transit buses and other vehicles

OTHER EXPERIENCES

- Excellent in using MathCAD, MatLab and WXMaxima
- Knowledgeable in Finite Elements Analysis (FEA) simulation using ANSYS-CFX and SolidWorks
- Construction Safety Training System (CSTS-09), GHS and WHMIS 2019
- ABSA Welding Examiner in Training; ASME Boiler and Pressure Vessel Code II Materials (Part A&C), V Non-Destructive Examination, IX Welding, Brazing, and Fusing Qualification, and B31.3 Process Piping