

ARNAB BRAHMA, Mechanical E.I.T.

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WORK EXPERIENCES

OCTOBER 2022 – PRESENT

MECHANICAL CHANGE MANAGEMENT COORDINATOR

PENNECON (**ROTATIONAL POSITION-CONTRACT**) VOISEY'S BAY NICKEL MINE

- Developed Field Work Instruction (FWI) for Vale from the RFIs and the Changes Requested daily. -Create change orders for the company for mechanical, and piping engineering changes that affects construction.
- Maintain logs, track changes, track hours, and more.

SEPTEMBER 2021 – OCTOBER 2022

PROJECT COORDINATOR

ROTHLOCHSTON VEL LTD. (**ROTATIONAL POSITION-CONTRACT**) VOISEY'S BAY NICKEL MINE

- Developed Field Work Instruction (FWI) for Vale from the RFIs and the Changes Requested daily. Extracted the drawing information (Obtained from Hatch, Vale), material quotes from suppliers (Like Hilti, Waterworks, etc.), labor work hours (Obtained by discussing with multidisciplinary superintendents), and then analyzed the cost needed to perform the change. The cost information was submitted to Vale for approval before starting the task.
- Submitted over 5000 hours of Engineering Change hours and got approval for those.
- Got approval for over \$10M value change orders, submitted over 650 change orders in Engineering Report style: Task list, multiple quotes, equipment, attachments, and more.
- Went through ECNs, QSRs, RFIs, NCRs to create Change Orders for the company.
- Created detailed task list for piping using standards, based on piping estimate files.
- Issued, and maintained cost codes, performed schedule delay analysis for the whole \$100M project.
- Completed the project till the end of the project, created Project Controls based Change Orders, performed strong MS Excel analysis to support the project controls team.
- Additionally, created a few RFIs, submitted a few RFQs, created MTOs, and did a few field engineering redlines, verifications.

JANUARY 2020 – MARCH 2020

RELIABILITY ENGINEERING COOP

NORTH ATLANTIC REFINERY LTD. (**COOP**) COME BY CHANCE REFINERY

- Worked on Location Hierarchy system of 20,000+ Assets within the company, in CMMS system MAXIMO. Created Tree setup based on different criteria.
- Created reports on PM Backlogs, and PM forecasts using MS Excel.
- Received training on CMMS system, MARKOV Analysis, Fault Tree Analysis, WHMIS, and Safety.
- Worked on reliability analysis using the information provided on the Datasheets, Manufacturer's sheets, Engineering Reports, etc.

MAY. 2019 – AUG. 2019

MAINTENANCE ENGINEERING COOP

THE CAHILL GROUP (**COOP**) MEMORIAL UNIVERSITY CORE SCIENCES BUILDING PROJECT

- Kept track of all the equipment, and vehicles for the 350M project site.
- Handled procurement for the tools (200 plus types) to be ordered for the project workers.
- Checked the dimensions, redlined, and updated at least 30 sections of the project.

SEPTEMBER 2018 – DECEMBER 2018

PROJECT ENGINEERING COOP, TOWN OF BAIE VERTE (COOP)

- Created a GIS map for the town's major assets (sewer basins, fire hydrants, sewage lines, water lines, etc.) in the QGIS application. Accumulated over 3000 assets on the map.
- Created file packages for RFIs and RFQs, including Engineering Drawings, Diagrams, information packages, and inquiries. Followed up with the Engineering Consultants and Firms.
- Created reports, arranged files, and submitted applications for at least 3 funding applications. Followed up with the government officials, and funding companies.

JANUARY 2018 – APRIL 2018

MECHANICAL ENGINEERING COOP, F&P MANUFACTURING INC. (COOP)

- Used leak testing, hydraulic presses, welding, stamping, and automatic robotic arm machines to perform various manufacturing and assembly processes.

EDUCATION

2016 - 2021

B.ENG., MECHANICAL ENGINEERING COOP PROGRAM

MEMORIAL UNIVERSITY OF NEWFOUNDLAND
SPECIALIZATION IN MECHATRONICS, AND MATERIALS

UNIVERSITY POSITIONS

- Research Assistant
- Exam Invigilator
- Office Support Assistant

TECHNICAL PROJECTS

- Final Year Capstone Project- Sustainable Energy of a Wastewater Treatment Unit (One Year)
- Reliability Analysis of a Shell and Tube Heat Exchanger
- Designing a Drive Shaft- Fatigue and Fracture Mechanics
- Inverse Kinematic Analysis and Simulation of a 5dof Robot- Robotics and Automation
- Earthquake Damage Control Using Pendulum System in Building- Mechanical Vibrations
- Mechanical Component Design- Designing a Car Jack Using a Power Screw
- Reverse Engineering of a Model, And Creating a 3d Model of Parts, Assembly Parts in SolidWorks

CERTIFICATIONS

- ✓ Driver's License, Clean Driver's Abstract
- ✓ Registered as E.I.T. in PEGNL, transferable to other provinces
- ✓ OH&S Training- Workplace NL
- ✓ WHMIS 2015
- ✓ First Aid and CPR/AED- St. John's Ambulance
- ✓ Lockout and Energy Isolation- Vale
- ✓ PEGNL Ethics 1&2
- ✓ PEGNL Diversity
- ✓ RothLochston Life Saving Rules
- ✓ IELTS- English Language Proficiency Test 7.5
- ✓ Post Graduate Work Permit.

TECHNICAL SKILLS

- MS Excel (Includes Complex Macro Developer Tools, PivotTable, Match, VLOOKUP, and more)
- Project Management, Reliability, Maintenance, Mechanical Designing, Budget Estimation, Project Coordination. (Got over \$8M approved, Owned multiple start-ups throughout)
- CAD Modeling, Analysis, Simulation (SolidWorks, Fusion360)
- CMMS System (MAXIMO) [Reliability Engineering Coop, North Atlantic Refinery Ltd., did training]
- GIS System (QGIS) [Project Engineering Coop, Town of Baie Verte]
- MATLAB, Minitab, etc.

OTHER POSITIONS

- Provincial Home Care (October 2020- October 2020)
- Subway (August 2018- September 2018)
- Tim Hortons (Jan 2017- August 2017)

REFERENCES

Available upon request.

