

SABYASACHI CHAKRABORTY

Alipurduar, West Bengal, India | +91-8972805749 | Sabyasachi95.work@gmail.com | [LinkedIn](#) | [E-Portfolio](#)

EXPERIENCE SUMMARY

Mechanical Engineer with 7+ years of hands-on experience maintaining and optimizing rotating equipment, hydraulic systems, and pneumatic machinery in heavy manufacturing environments. Seeking to transition into Reliability Engineering to apply maintenance expertise toward proactive asset management and building resilient plant operations through data-driven failure analysis and predictive strategies.

CORE SKILLS

- Vibration and Oil Analysis, Thermography, Ultrasound Lubrication, N.D.T, Dynamic Balancing, Hydraulics & Pneumatics Maintenance Proficiency
- SAP Plant Maintenance (PM), Microsoft Excel.
- Design Software proficiency: AutoCAD 2D, SolidWorks (CSWA Certified) , GD&T.
- Machining operation proficiency: Lathe, Milling, Radial Drill, Power Hacksaw.
- Team Leadership, Analytical Thinking, Resource Optimization, Lean Six Sigma (Yellow Belt).

WORK EXPERIENCE

Mechanical Maintenance Engineer

Powerplus Cable Co. L.L.C., Fujairah, U.A.E

Feb 2022 to Present

- Maintained and troubleshot critical asset types including compressors, chillers, air dryers, cooling towers, stranding and armoring machines, wire extruders, ccv line, drum twisters, hydraulic presses, EOT/gantry cranes, and non-IBR boilers.
- Achieved 15% annual cost savings through reverse engineering and in-house fabrication of spare parts, reducing dependence on OEM suppliers.
- Contributed to yearly preventive maintenance planning, daily log sheets, history log books, and utility parameter monitoring in compliance with ISO requirements.
- Led HSE efforts to fulfill ISO 45001 & 14001 requirements across the plant, ensuring 100% safety training compliance and followups.
- Trained fitters and helpers on maintenance best practices, improving team self-sufficiency and reducing escalation of routine faults.
- Reduced downtime of the armoring machine by 25% through redesign of the bobbin lock-pin assembly, eliminating a recurring failure mode without OEM involvement.

Condition Monitoring Engineer

Ambuja Cement Ltd., Punjab, India

July 2018 to Jan 2022

- Maintained ball mills (80 & 150 TPH), girth gears, gypsum crushers, static and dynamic classifiers, bag filters, bucket elevators, belt and chain conveyors, truck-tippers, and dense phase fly-ash conveying systems.
- Improved MTBF of blowers and fans by 30% through application of PdM technologies (vibration analysis, ultrasound lubrication) and maintenance scheduling.

- Achieved predictive maintenance compliance of >90% at the Ropar plant unit for three consecutive years.
- Led in-house dynamic balancing of impellers and fans, cutting third-party expenditure by 25% and reducing turnaround time.
- Increased MTBF of ball mills and classifiers by 10% through improved periodic inspections targeting worn components.
- Coordinated predictive maintenance during plant shutdowns, ensuring timely completion and operational readiness with a zero-incident safety record across the tenure.

EDUCATION

- B.Tech in Mechanical Engineering, Academy of Technology.
Grade: 8.67 DGPA, From May 2014 to June 2018.

CERTIFICATIONS

- Lean Six Sigma Yellow Belt - Quality Gurus Inc.
- Certified Solidworks Associate in Mechanical Design - Dassault Systemes.