AMIT DIWAKAR

A-201 Prode Springfield Apartments, Gubbalala, Bengaluru-560061, India +91 9900168856\* DIWAKARAMIT@GMAIL.COM

### PROFESSIONAL SUMMARY

Motivated Mechanical Integrity Engineer with over 15 years' experience in mechanical integrity and RBI project implementation in process industry with a strong background in developing and implementing risk-based inspection strategies for upstream, downstream and offshore facilities.

### PERFORMANCE HIGHLIGHTS/ACCOMPLISHMENTS

* Achieved a gross margin of 65% on all the projects by outsourcing non-key tasks and managing the subcontractors.
* Successfully managed multiple projects, ranging from $ 400,000 to $ 2 million.
* Ensured 100% adherence to schedule by building effective teams and by aligning their incentive with overall goal of the project.
* Achieved high customer satisfaction through 360-feedback.
* Assisted with development of definitions and tracking of Mechanical Integrity (MI) KPI for a site.
* Authored procedures for grouping plant process piping based on process conditions.
* Created asset integrity training materials and facilitated training sessions for new hires.
* Implemented RBI projects in various softwares like PCMS, Meridium, Capstone, AllAssets for process industries such as oil and gas, fertilizer, food, pharma etc.
* Good knowledge on API 510, 570, API 580, API 581, ASME SECTION VIII DIV 1, ASME B31.3.
* Experience with Implementing Mechanical Integrity programs in pharma, food, offshore and onshore industry with experience in upstream, downstream and midstream domain.
* Provided recommendations on fabric maintenance to address CUI issues.
* Recognized as a star performer of the year 2023 for Vysus Group.
* Certified in API 580.

### PROFESSIONAL EXPERIENCE

Vysus group (formerly known as Lloyd Register Energy Americas) **HOUSTON, TX, USA**

*Sr. Mechanical Integrity Engineer, Jul 2015 - Present*

* Conduct gap assessment in MI program, work closely with inspections, maintenance, and operations to close the gaps.
* Collaborate with plant operations, maintenance, and engineering teams to gather data on equipment conditions, failure histories, and operational parameters to support risk assessment activities.
* Conduct comprehensive risk assessments using industry-standard methodologies such as API 580, API 581, and RCM (Reliability Centered Maintenance) to identify critical equipment and prioritize inspection and maintenance activities.
* Use predictive reliability models to prepare maintenance plans and schedule.
* Development of inspection plans, procedures, and work instructions, ensuring alignment with industry standards, regulatory requirements, and client specifications.
* Implemented and maintained a centralized inspection database, enabling easy access to inspection records, reports, and equipment history.
* Prepare and present technical reports and recommendations to stakeholders, highlighting inspection findings, risks, and recommended mitigation measures.
* Analyze inspection data, identify failure patterns, and collaborated with maintenance and engineering teams to develop preventive and corrective action plans.
* Perform required thickness calculations for storage tanks, pressure vessel components, piping using applicable ASME and API code and determine next inspection date.
* Create job plans/Task list in Maximo/SAP, oversee monthly equipment inspections and PM due dates and maintain KPI.
* Perform corrosion assessment primarily for oil and gas plants including downstream, upstream and midstream plants.
* Write Mechanical Integrity policies and procedures for the site.
* Perform CML optimization: Assign CMLs based on applicable damage mechanism, identify appropriate inspection technique and manage NDE contractors.
* Estimating time, cost and budget for a project, assisting with preparing proposal and conducting kick off with stakeholders.
* Accountable for monitoring project risks/scope creep to identify issues and proactively find solutions to address them.

PinnacleART**, PASADENA, TX, USA**

*Project Lead-Asset Integrity, Oct 2008 - May 2015*

* Charged with completing QA/QC on deliverables to help ensure their high level of quality.
* Analyze processes, P&ID, and material balances to group piping with similar degradation rates to form inspection circuits.
* Planned, organized, and implemented all aspects of the RBI implementation project.
* Implemented RBI projects in PCMS for multiple clients; used import/export functions for data uploads; guided an implementation team tasked with setting up an RBI program for O&G, chemical, and pharmaceutical plants.
* Provided constructive feedback to team members to spur their development.
* Facilitated a corrosion study and the consequence of failure meetings; verified risk results; and completed inspection planning in PCMS.
* Spearheaded client meetings to gain a thorough understanding of expectations; developed an RBI methodology specifically tailored for Credo®, ensuring seamless implementation; and facilitated UAT meetings to validate results throughout the RBI methodology development process.

Nalco Chemicals, KOLKATA, WEST BENGAL, IN

*Process Engineer, Jun 2005 - Oct 2006*

* Effectively communicated with all team members and other groups within the company to improve performance of the design team to meet the project deadline.
* Assessed processes for their relevance and assessed the adequacy of engineering equipment.
* Performed material & energy balance calculations and design various units like process pumps, control valves, safety valve and heat exchanger.
* Responsible for environmental monitoring and ongoing performance of processes and process plant.
* Responsible for preparing PFD and P&ID for the new process.

### EDUCATION

**Texas A & M University**

**Kingsville, Texas, USA**

Master of Science - Chemical Engineering (Aug 2008)

GPA: 3.5

**Dayananda Sagar College of Engineering**

**Bengaluru, Karnataka, India**

Bachelor of Engineering - Chemical Engineering (Jun 2004)

GPA: 3.5

### ADDITIONAL SKILLS

* Plantwide RBI project implementation in Meridium, Capstone, AllAsset, Credo, PCMS, Antea.
* Work order, PM, Job plan/Task list development in Maximo and SAP.
* Extensive knowledge on API 510, 570, 650, 653, API 571, API 580, 581, API 574, API 576.
* Hardworking, strong work ethic, excellent communication skills, project management.
* SQL, Python, VBA coding in Excel for automation, Power BI, MS Access.

### CERTIFICATIONS

API 580

### REFERENCES

References available upon request.