VAIBHAV DINESH THAPLIYAL

+1 6823730789 | vaibhavthapliyal27@gmail.com | http://www.linkedin.com/in/vaibhav-thapliyal-6b3201251

SUMMARY

Dynamic Industrial Engineer with six years of experience in Production Management, Supply Chain Optimization, and Process Improvement. Possess strong technical aptitude, analytical problem-solving abilities, and excellent time management and organizational skills. Demonstrated success in enhancing operational efficiency, reducing costs, and driving overall business performance. Strategic and creative thinker with a positive attitude, team-oriented approach, and a self-motivated drive for continuous improvement. Seeking a challenging role to leverage my expertise and contribute to organizational success while fostering personal and professional growth.

EDUCATION

University of Texas at Arlington
Master of Science in Industrial Engineering Graduated May 2024 | Texas, USA.

University of Mumbai
Bachelor of Engineering in Production Engineering Graduated September 2016 | Mumbai, India.

PROFESSIONAL EXPERIENCE

VITECH HEAVY EQUIPMENT'S PVT.LTD.
Production Engineer | Dec 2019 - Mar 2021

- Design and Engineering: Collaborated with design engineers using CAD software to create and modify pressure vessel designs and developed new manufacturing processes to improve efficiency using data analysis and lean principles.
- Compliance and Certification: Ensured pressure vessels met ASME and API standards and oversaw the certification process.
- Manufacturing and Material Management: Supervised welding techniques (MIG, TIG, stick) and managed material selection for pressure vessels, including conducting root cause analyses to address production issues and reduce defects with corrective actions.
- Quality Control and Inspection: Conducted inspections and utilized non-destructive testing (NDT) methods to ensure quality assurance throughout manufacturing.
- Safety Protocols: Enforced safety standards and conducted risk assessments to mitigate hazards in pressure vessel manufacturing.
- Project Management: Managed projects from design to production, including client communication, adherence to timelines, and budget management.
- Process Optimization: Led lean manufacturing initiatives such as 5S implementation and Kaizen events to improve workflow, reduce waste, and achieved significant cost savings through continuous improvement.
- Maintenance and Troubleshooting: Oversaw preventive maintenance and resolved mechanical issues affecting production equipment.
- Documentation and Reporting: Maintained detailed records and prepared technical reports for compliance and quality assurance.
- Training and Technology Integration: Trained staff, facilitated skill development, and integrated automation technologies and new technologies to enhance manufacturing processes.

CODE TECH INTERNATIONAL PUNE
Design Engineer | Sep 2018 - Dec 2019

- Pressure Vessel Design and Analysis: Designed various pressure vessels using PVELITE, meeting diverse project requirements and adhering to ASME and non-ASME standards.
- Pre-Bid Assessments: Conducted comprehensive pre-bid evaluations to assess design specifications and feasibility, aiding in precise cost estimation and project planning.
- Post-Bid Design Support: Provided design modifications and optimizations during the post-bid phase to enhance performance and meet project specifications.
- Advanced CAD Proficiency: Improved efficiency in design processes by leveraging advanced CAD software tools, including AutoCAD, to create precise and detailed design drawings.
- Innovative Solutions: Introduced and executed innovative design solutions, resulting in improved product performance and cost efficiency.
- Research and Trends: Enhanced product design through thorough research and application of the latest industry trends and cutting-edge technologies.
- Documentation and Transition: Ensured a smooth transition from design concept to production stage with accurate documentation and detailed specifications.
- Quality Assurance and Compliance: Maintained high standards of design quality and ensured compliance with relevant industry codes, contributing to the safety and reliability of engineered products.
- Collaborative Problem-Solving: Coordinated with cross-functional teams to address design challenges and develop effective, practical solutions.

VISHW COMMUNICATION
Project Engineer | May 2017 - Aug 2018

- Coordinated and managed engineering projects from inception to completion, ensuring timely delivery within budget constraints.
- Facilitated in developing detailed project plans, including scope definition, schedule creation, and resource allocation.
- Collaborated with cross-functional teams, including designers, contractors, and clients, to align project goals and requirements.
- Conducted regular site inspections to monitor progress, address issues, and ensure adherence to safety and quality standards.
- Developed and presented status reports to stakeholders, highlighting project progress, challenges, and solutions.
- Identified and resolved technical and logistical issues to minimize project delays and maintain timelines.
- Directed cross-functional teams to streamline project processes and enhance operational efficiency.
- Implemented performance monitoring systems to track project milestones, ensuring project success and client satisfaction.
- Optimized & effectively supervised budgets across multiple projects, meeting financial targets and optimizing resource allocation.
- Emphasized quality control and reduced defects through detailed project planning and proactive timeline management.

DESIGNIT4U
Design & Manufacturing Engineer | Jan 2016 – May 2017
- Executed design and manufacturing activities, ensuring compliance with project timelines and quality standards.
- Collaborated with manufacturing and quality teams to ensure design feasibility and optimal performance.
- Identified and applied process enhancements as part of continuous improvement initiatives.
- Coordinated with vendors and internal stakeholders to optimize project outcomes.
- Streamlined design processes, enhancing efficiency using advanced CAD software tools.
- Conducted detailed design reviews and introduced improvements to boost product quality.
- Aided in 3D printing projects, applying innovative solutions to advance prototype development.

SIEMENS INDIA LTD.
In-plant Trainee | Nov 2014 – April 2015
- Identified inefficiencies and proposed alternative processes to contribute to cost reduction efforts.
- Spearheaded improvement projects including Drum Barreling Chute enhancement and Implementation of 5S in Plastic shop.
- Implemented Kanban system and aided in optimizing plant layout for raw materials
- Managed inspection protocols, maintenance schedules, inventory control, and material handling procedures in the Pre-Manufacturing Plastics Department.
- Utilized 5S, Kaizen, and Kanban methodologies to enhance operational efficiency and organizational effectiveness on the shop floor.

ACADEMIC PROJECTS
- Logistics Distribution System design IE- 5334, Redesigned the S. P. Richards Warehouse to facilitate the seasonal demand achieved primary objective by reducing the total warehouse maintenance cost by 23.6% with increase in equipment utilization by 42.6% and increase in inventory storage space by 14%.
- Applied Regression Analysis IE-5318-001, performed Multiple Linear Regression Analysis to predict number of runs scored by cricketer to help management to evaluate performance of player.
- Data Mining & Analytics IE-6318-006, Used customer preferences to predict hotel booking cancellations and implement targeted marketing to prevent churn.
- Project Management OPMA-5364-001, E-Commerce Warehouse Optimization (E-Z) project to enhance efficiency through innovative wave strategies and advanced material handling systems, achieving an 8.5% reduction in order completion time. Utilized Agile (Scrum Framework) methodologies and deployed Warehouse Management Systems (WMS), automation solutions, and RFID/barcode technology. Administered comprehensive risk and communication plans to ensure successful integration and stakeholder engagement, demonstrating expertise in project leadership, strategic planning, and technology implementation for operational excellence in dynamic e-commerce environments.
- Quality Systems IE-5303-001 Six Sigma DMAIC Quality Optimization Initiative: Minimizing Lot Rejections at WIKA Instruments Pvt. Ltd. using P-Chart, Pareto Diagram, Why-Why Analysis, Force Field Analysis, Cause and Effect ("fishbone") diagram, Scatter Diagram, Histogram, and Control Charts etc. from 11% to 2%.

SKILLS
- **Technical Skills:** AutoCAD, PVELITE, Python, ZWCAD, SAP, Power BI, ASME Codes & Standards, MS-Office.
- **Management Skills**: Production Management, Supply Chain Management (SCM), Material Management, Inventory Management, Demand Forecasting.
- **Process Improvement**: Lean Manufacturing, Root Cause Analysis, Statistical Process Control (SPC), Total Productive Maintenance (TPM), Manufacturing, Quality Control, Continuous Improvement, Six Sigma, Value Stream Mapping, Kaizen, Just-in-time (JIT), Kanban, 5S, Poka-yoke.

AREA OF INTEREST
Production and Manufacturing, Industrial Quality Control, Materials, Supply Chain and Operations Management.

CERTIFICATIONS/TRAINING
- Attended industrial training at SIEMENS INDIA LTD. KALWA.
- Certificate in Six Sigma from COUNCIL FOR SIX SIGMA CERTIFICATION C.S.S.C.
- Six Sigma Green Belt from LinkedIn.
- Certificate in Decision Analytics from University of Texas at Arlington.
- Certificate in Logistics from University of Texas at Arlington.
- Earned AutoCAD-2010 certification through UDEMY.
- Power BI: Dashboards for Beginners from LinkedIn.
- Finished Introduction to Python course on SOLOLERN.
- Completed Python Fundamentals on DATACAMP.
- Concluded the Learn2Serve Texas Food Handler Education course.

PROFESSIONAL EXPERIENCE
Chick-fil-A, University of Texas at Arlington | Aug 2023 – May 2024
Part-Time Student Worker (Supervisor)
- Provided excellent customer service, handled transactions, and maintained cleanliness standards.
- Supervised and oversaw the smooth functioning of day-to-day activities.
- Entrusted with training new employees, contributing to a more efficient team.