PRAKASH JADHAV

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PROFESSIONAL SUMMARY

- Over 7 years of professional experience in the manufacturing, petroleum, and pharmaceutical industries.
- Proficient in conducting Time Studies, Lean Manufacturing, Six Sigma, DMAIC, Bottleneck Analysis, FMEA, and Line Balancing, employing these methodologies to enhance workflow, reduce waste, and optimize layouts.
- Proven ability to effectively manage budgets up to $100K, resulting in a substantial 20% increase in production capacity and an appreciable 15% reduction in maintenance costs.
- Skilled in analyzing process data and identifying opportunities for optimization, resulting in a 25% increase in overall production output and a 15% reduction in waste.
- Demonstrated a stellar track record in designing and implementing process control systems, contributing to an impressive 30% improvement in product quality.

EDUCATION

Master of Engineering, Industrial Engineering Co-op (GPA: 3.7/4.0) *Sep 2022 - Dec 2023*
University of Windsor, ON, Canada

Master of Technology, Production Engineering *Aug 2016 - Jul 2018*
Veermata Jijabai Technological Institute, Mumbai, IN

Bachelor of Engineering, Mechanical Engineering *Aug 2012 - Jul 2015*
University of Mumbai, Mumbai, IN

EMPLOYMENT EXPERIENCE

Production Engineer Co-op
Kraft Heinz/Highbury Canco, Leamington, ON *Apr 2023- Aug 2023*

In this position, I conducted downtime studies to analyze production interruptions, contributing to strategies for minimizing downtime and improving operational efficiency. I fostered an environment that rewarded good performance and encouraged initiative while ensuring high standards of quality, communication, and efficiency. Additionally, I managed the distribution of essential paperwork to production lines, maintained compliance, led research efforts, implemented software solutions for operational metrics tracking, and enforced consistent adherence to work instructions and product standards.

- Conducted in-depth downtime studies to identify and analyze the root causes of production interruptions, playing a pivotal role in developing strategies to minimize downtime and enhance overall operational efficiency by 13%.
- Implemented a digital downtime tracking system, resulting in a notable 30% decrease in time spent on paperwork, improving overall operational efficiency and resource utilization.
- Implemented lean manufacturing practices like time and motion studies, reducing waste by 20% and improving overall workflow.
- Optimized the battery charging process for material handling vehicles, resulting in an impressive 25% improvement in battery life. This enhancement contributed to increased operational efficiency and reduced maintenance costs.
- Led and supervised projects for teams of 10+ members, including external contractors, production laborers, and junior engineers.

Quality Engineer
M.J. Biopharm Pvt. Ltd, India *Nov 2020 - Aug 2022*

In this role, I developed and implemented validation protocols for equipment, producing comprehensive reports on validation activities. I led the deployment of new equipment, overseeing qualification and documentation. Operating various instruments and equipment, I improved production processes through SOP creation and operator training. Additionally, I ensured accurate data collection, tracking SPC data, and reporting on KPIs for continuous improvement.

- Developed and maintained validation documentation that ensured compliance with industry regulations and reduced audit findings by 30%.

- Analyzed in-process inspection, process control activity, reject rates, and customer complaints levels, recommended corrective actions to decrease process errors and number of reported issues by 25%
- Carried out FAT, DQ, IQ, OQ, and PQ validation for 8 new equipment, ensuring 100% accurate and efficient documentation.
- Operated instruments and equipment, including Autoclave, DHS, Data Logger, Temperature mapping probes, filling machine, washing machine, sealing machine, visual inspection machine, etc.
- Upgraded quality standard company-wide with emphasis on documentation and verification processes, leading to less than 3% defects at final inspection for 4 months straight.

Project Engineer
Hitech Engineering Works, India *Nov 2018 - Oct 2020*

As a Project Engineer, I managed engineering projects from preparation to monitoring, ensuring alignment with financial goals. I analyzed product cost data, monitored yield and productivity, and optimized production schedules and team assignments for optimal performance. Additionally, I prepared schedules and status reports to track project progress effectively.

- Slashed lead time on over 10 projects from 2 months to 5 weeks by leveraging project management tools like Microsoft Project, demonstrating a significant improvement in project efficiency.
- Supervised a team of 20 workers, inspiring diligence, and teamwork, resulting in an impressive 15% increase in overall productivity and saving 80 man-hours per month.
- Improved manufacturing efficiency by analyzing workflow and equipment layout, leading to a 5% increase in productivity and a 12% reduction in space requirements.
- Managed a complex production project from concept to completion, ensuring on time delivery and achieving a 15% increase in production capacity.
- Continually reviewed production flow and implemented workflow improvement to reduce complexity, redundancy, and cycle time, increasing profit by 10%.

Technical Apprentice
Bharat Petroleum Corp. Ltd., India *Jul 2011 - Jul 2012*

As a Technical Apprentice, I conducted maintenance and overhauls on various equipment such as pumps, compressors, turbines, and valves. I performed daily preventive maintenance and carried out installations of new equipment in the refinery. Additionally, I executed condition monitoring tasks including vibration analysis and failure analysis for rotary equipment.

- Performed Daily routine maintenance and repair services, following established procedures, resulting in a 20% decrease in equipment downtime and a 15% increase in overall equipment effectiveness.
- Troubleshot and resolved maintenance issues, implementing solutions that reduced downtime by 40% and increased equipment reliability by 25%.
- Identified and fixed issues with the machine parts due to improper operating specifications, maintaining 95% operational accuracy.
- Overhauled Pumps, Compressors, Blowers, Fans, Gas Turbines, Steam Turbines, Valves of various sizes, Heat exchangers, Heaters, Cooling towers, Storage tanks, Gas Skids, Reactors, Filters, etc.

SKILLS

▪ Six Sigma Green Belt	▪ Statistical analysis	▪ SAP/ERP	▪ Root Cause Analysis
▪ Continuous Improvement	▪ Lean Manufacturing	▪ MATLAB	▪ Microsoft Office
▪ Project Management	▪ Process Improvement	▪ Logistics	▪ CAD/CAM

ACADEMIC PROJECTS/ INTERNSHIPS

Cycle time reduction in the tube-to-tube sheet welding process
L&T Mumbai, India *Aug 2017 - Jul 2018*

- Designed a new hydro test arrangement, which improved the efficiency by 100% by executing two hydro tests simultaneously using a T-fitting joint.
- Improved workflow operation (radiography test, hydro test, cleaning) and reduced setup time by 20% using Six Sigma and Lean Manufacturing methodologies.

- Improved the jacking fixture to jack 32 tubes simultaneously and used electric preheating instead of gas burners which ultimately reduced the cycle time by 50%.

Offline passivation of GP Coil

JSW Steel Ltd, India *Aug 2014 - May 2015*

- Designed and implemented new systems, processes, and equipment to ensure manufacturing is efficient and effective, increasing productivity by 25%.
- Designed an offline passivation project which included a chromic tank, heat exchanger ducts, air dryer, and structural drawing with the help of AutoCAD and SolidWorks software.
- Successfully fabricated in-house components including stands, dryers, chrome tanks with roller assemblies, and other project parts, resulting in significant cost savings of approximately $15k.