

Gaurav Vyas

Blacksburg, VA

-Email me on Indeed: <http://www.indeed.com/r/Gaurav-Vyas/5cacc6191c3f86e5>

Detail-oriented and goal driven engineer with 4+ years of experience in the manufacturing sector, currently pursuing master's degree in Industrial and systems engineering from Virginia tech. My professional experience in China and USA has helped me to develop a strong background in project management, product development, supplier development, quality control, process improvement and lean manufacturing. Additionally, I possess strong interpersonal and communication skills, with basic proficiency in Mandarin (Simplified Chinese) which allowed me to work collaboratively and effectively with cross-functional teams of our suppliers based in China.

Work Experience

Industrial Engineering Intern

The Toro Company - Ohio

August 2022 to January 2023

- Implemented lean manufacturing tools and techniques to create stability, reduce waste and drive methodical problem-solving
- Participated in time study activity by providing cycle time updates and performing line balancing, to eliminate inefficiencies in the production process, thus increasing the daily production capacity of KN tractors from 12 to 14.
- Worked with the team of process engineers to identify 105 crucial non-cyclic processes, and developed standard operating procedures using SPL (Single Point Lessons) documentation with focus on safety procedures
- Performed monthly 5S audits for production departments, with a goal of identifying opportunities for continuous improvement, through waste reduction, efficient space utilization, and correct any unsafe conditions
- Performed weekly Gemba walks along with stakeholders, to observe and analyze site safety strategies, identify opportunities for process improvements, and work closely with the EH&S leader and process engineers to address the risks identified
- Collaborated with multiple levels within the organization, ranging from shop floor associates to managers and executives during the implementation of day-by-hour board for assembly lines and development of Leadership standard work (LSW) documentation
- Deployed the Daily Management System (DMS) by setting up tiered accountability boards and SQCDP (Safety, Quality, Cost, Delivery and People) boards facilitating the tracking of Key performance indicators (KPIs)
- Contributed to the development of Station-wise Bill of Material (BOM) and Plan for Every Part (PFEP) for 2700 parts used on Ventrac Tractors, by presenting max-min inventory levels, order quantity, and standard packaging dimensions to optimize warehouse utilization
- Deployed PFEP tool on the Syspro network to use real-time data and help the purchasing and receiving teams understand the warehouse space requirement for each part, thereby reducing overflow inventory by 40%, resulting in cost savings

Product Development Manager

TV PRODUCTS HK LTD - Shenzhen, China

December 2018 to May 2020

- Reduced process variation by 15% through the design and implementation of new process controls to improve efficiencies, sustain approved levels of quality and reduce safety risks
- Collaborated with large cross-functional teams of engineering, quality and production planning of supplier through effective communication in Mandarin language, to identify ideal technical specifications, performance metrics and quality guidelines
- Led multiple semi-complex projects successfully, for OEM products like Arctic Air, Ultra Chill, Chill Chest and Magic tracks with order quantity over 1.5 Million, spanning various product categories , including plastic, silicone and EPP injection molding and manufacturing
- Spearheaded new product introduction (NPI), by understanding supplier capabilities and aiding design discussions, process design, define and manage quality controls and acceptance procedures thereby maintaining quality standards.
- Planned and implemented APQP processes for new product development projects, for timely delivery of design release, pilot builds, and mass production qualification. Further, established and executed PPAP requirements for all new and modified parts
- Conducted supplier assessments and audits, using data analysis, root cause analysis and lean tools to identify process gaps, risks, and improvement opportunities, leading to a 30% reduction in defects and 20% increase in process efficiency

Quality Assurance Engineer

TV PRODUCTS HK LTD - Shenzhen, China

February 2017 to December 2018

- Led quality inspection processes, including developing quality standards for manufacturing partners and implementing inspection plans, conducting visual and functional inspections as per the industry standard AQL levels.
- Responsible for monitoring supplier performance and ensuring that they meet quality, cost, and delivery targets which involved tracking supplier performance metrics, conducting supplier audits, and implementing corrective actions throughout product lifecycle
- Implemented and maintained quality control procedures, including developing testing protocols and documentation of quality standards, and conducting supplier audits to ensure performance, delivery and reliability expectations are met.
- Developed and executed Supplier Corrective Action Request (SCAR) procedures to ensure timely resolution of supplier quality issues which reduced non-conforming product instances by 30% and ensured design/process changes were robust and sustainable
- Led root cause analysis efforts and implemented corrective actions by working closely with the suppliers to prevent recurrence of quality issues using failure mode analysis (FMEA), 8D, Fish-bone diagram & 5W methodologies
- First level investigation of any quality or safety issues, open items and QDN's (quality deficiency notice) with suggestions to prevent occurrence in future and escalating functional/process failures to respective support groups

Education

Master of Engineering in Industrial Engineering

Virginia Tech

August 2021 to Present

Bachelor of Engineering in Mechanical Engineering

Mumbai University - Mumbai, Maharashtra

July 2012 to May 2016

Skills

- Language Proficiency: English, Mandarin (Simplified Chinese), Hindi
- New product Introduction (NPI)
- APQP
- PPAP
- SPC
- Cpk
- Gage R&R
- Quality Control
- 5S
- Root cause analysis
- Lean Six Sigma
- Minitab
- Python
- MATLAB
- SQL
- R
- PowerBI
- AutoDESK
- SolidWorks
- ProE
- Advanced Excel
- MS Office.

Links

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