Ankush Wawoo

Industrial Manufacturing Engineer

Manufacturing professional with 5 years of experience in large scale, high volume manufacturing industry with the business for tier 1 OEM plastic parts & assemblies.

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EDUCATION

UNIVERSITY OF HOUSTON — ***Houston, TX USA***
Master of Science in Industrial Engineering — May 2019

UNIVERSITY OF NAGPUR (RCOEM) — ***Nagpur, MH INDIA***
Bachelor of Engineering in Mechanical Engineering — May 2015

CERTIFICATIONS

Six Sigma Green Belt | Lean Management | Lean Production | OSHA | CAPM *(ongoing)*

LICENSE

MODPAPTS Practitioner | Certified by International MODAPTS Association

SKILLS

Product Launch, Continuous Improvement, Work Measurement, Statistical Process Control, Process flow, PFMEA, Time study, QC, SOP, SOS, Cpk, Value Stream, Kaizen, Project Management, Data Analysis, MINITAB, 8D, A3, 5S, 5W, QMS, CAPA, Vision Systems, SAP ERP, SOLIDWORKS, Creo, AutoCAD, GD&T, 3D Printing, Advanced welding techniques, Vibration welding, Ultrasonic welding, Infrared welding, FMEA, NPD, Design of Experiments, Statistical Analysis, Ergonomics, IATF 16949, Python, MS Project

EXPERIENCE

NOVARES US ENGINE COMPONENTS — ***Southfield, MI USA***
Design Manufacturing Engineering Leader — ***Mar 20 – Nov 21***

- Lead cross-functional teams during product launch to mitigate risks concerning equipment, tooling, and process, while assessing and proactively addressing high-risk situations to overcome any foreseeable challenges
- Developed process flows for new products and equipment including layout, resource planning, and provided manufacturing feasibility assessments during various phases, to improve manufacturing capability, quality, and cost
- Act as a Project Manager to source, plan and implement industrial equipment for tooling, assembly, and packaging processes with a CAPEX of anywhere up to **$250,000**
- Actively involved in **assembly process development**, managing assembly tooling equipment qualification, and implementing tooling changes by directly communicating with suppliers, supervisors, maintenance, and management to develop workstations and processes to meet cycle time requirements
- Headed **planning and implementation of new manufacturing processes** in the manufacturing plant and lead **run-off**, installation, and qualification of new equipment and tooling
- Defined capital equipment and resource requirements, developed manufacturing process flow, **PFMEA**, and lead all validation and **PPAP** approval activities for new products and processes, and infused lessons learned to new programs to eliminate recurrence
- Contributed to research and development technologies relating to **advanced plastic welding** techniques such as vibration welding, ultrasonic welding, infrared welding, and automated inspection and packaging systems
- Perceived **should cost** for NPI upon **process feasibility** to analyze **cost drivers** and achieved significant **process cost reduction by 22% ($ 33,500)** from prototype to serial production.
- Drove continuous product development meetings with **cross-functional teams** to define **product launch strategy** to ensure smooth production, less non-conformance for long-term scope.
- Prepare Critical to Quality CTQ documents and reports to ensure complete technology transfer to the respective plant for safe manufacturing launch

ANDWILL LLC — ***Wilmington, DE USA***
Manufacturing Engineer — ***Nov 19 – Mar 20***

- Generated current state **VSM**, process flow charts, and optimized future state VSM to establish pull system in a job shop layout
- Identified wastes through statistical analysis, evaluated Kaizen bursts, executed root cause research with corrective action

- Improve takt time by utilizing six sigma tools & continuous flow to achieve a 30-day reduction in lead time, a **28-minute reduction in setup** time, decreased work in process, enhanced machine utilization, and systematized tool management
- Achieved a cost savings of **40%** by redesigning the layout of equipment, materials, assembly stations for enhanced material handling and movement
- Ensured efficient material flow using overhead lifting equipment systems within departments and simultaneously allowing flexible area in the new layout for **7%** growth of the company with optimized cost and resource utilization

RECTORSEAL ***Houston, TX USA***
Process Engineer ***May 18 - May 19***

- Enhanced workflow of product sorting and inspection by **44%** by debottlenecking and automating inspection to reduce labor cost using COGNEX vision systems resulting in a total savings of **$35,880/annum**
- Led continuous improvement projects focused on scrap reduction, automation, and quality improvement
- Decreased cycle time by **38%** by merging multiple operations of scraping, inspection, and packaging redesigning workload balance resulting in an overall increase in the line capacity
- Accomplished a cost reduction of **50%** by optimizing manufacturing line to incorporate a new product family on leak-freeze filling machine resulting in a **CAPEX** savings of **$8,000**
- Generated new product design for HVAC components using SOLIDWORKS 2017; generated DOE to determine optimal process
- Documented SOP and created standardized protocols, executed GD&T and prepared production drawings
- Developed and documented criterion for quality tests for HVAC products; analyzed quality issues on customer complaints
- Facilitated APQP and PPAP process, devised FMEA, initiated engineering changes, generated cause-effect matrix & tracked KPI's
- Oversee and analyzed suppliers/vendors product quality compliance, developed quality control standards and procedures
- Provided operational support and training for new equipment, OEE & maintenance; collaborated with marketing & operations.

GREENTECH ***Nagpur, MH INDIA***
Manufacturing Engineer ***Mar 16 - Jul 17***

Project: Water-Power Generator

- Lead Designer for designing water guiding grid plate assembly using PTC Creo 2.0 to direct water flow on turbine blade system resulting in **6%** increased RPM of generator assembly
- Accomplished design optimization resulting in an increased performance of generator assembly by **9.5%**
- Achieved design criteria for manufacturability, sustainability, and safety constraints; created and maintained BOM, evaluated GD&T to maintain standard specifications attain higher precision and quality
- Developed and conducted regular quality checks using gauges, CMM; supported OEE, troubleshoot maintenance
- Collaborated with cross-functional teams from Jun-Fu (Taiwan) to track projects and engineering changes

Project: Highway Power Generator

- Optimized the assembly process of a complex electro-mechanical system using MOST and documented standard operating sequence (S.O.S.)
- Boosted assembly line productivity by **13%**; Piloted time studies and MUDA analysis to revamp line efficiency
- Identified and cut downed avoidable waste in the value stream by performing workload balance
- Utilized Lean Manufacturing tools with **PDCA**, Kaizen, Jidoka, Fish Bone Diagrams, and **VSM** for overhauling productivity; optimized manufacturing methods through ergonomic assessment & engineering analytical problem solving using **RULA** & **REBA**

INFOSYS LTD ***Mysore, KA INDIA***
Systems Engineer ***Oct 15 - Mar 16***

- Performed Object Oriented Programming using Python
- Trained in Relational Database Management System (DBMS) utilizing SQL