Ankit Kumar Sinha

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A self-motivated & result oriented professional, with over 6+ years of experience in project management, green/brown field projects planning & execution, Capital equipment procurement, Manufacturing engineering of NPI project in the Automobile sector.

Profile Summary

- Green/brown field Project
- Capex planning & execution
- Capacity expansion
- Equipment Procurement till I&C
- ➤ Electric vehicle Sub 3.5 Ton
- Process & equipment layout design
- Manufacturing engineering
- Supplier management
- > Fixture design & development
- Greenfield project VE1900 for TCF Trim, Chassis & Post roll out area, for LMD trucks with capacity 12 JPH.
- Greenfield project for integrated common TCF line for EV, Diesel & CNG Sub 3.5 ton with capacity 12 JPH.
- Greenfield project for BS IV engine Assembly, Coupling & Dressing line (execution).

Software Skills

🐧 CAD – Auto Cad, Pro-E, Delmia 🐞 CAM – Power mill, Feature CAM . 🔎 SAP

M.S Office, M.S Project

Professional Experience

VE Commercial Vehicles Ltd, Bhopal as junior manager (M2-B)



(Feb' 19 - till date)

Responsibility-

- CAPEX, Engineering planning & execution for NPI projects in TCF for LMD vehicles having 12 JPH production.
- Process improvement thru low cost automation for operator ergonomics through time & motion study.
- Project schedule preparation as per business plan and co-ordination with CFT including IT, civil & utility team.
- Line capacity expansion planning, layout & Process finalization.
- Design, development & implementation of all kind of Jigs, Fixtures, tackle, gauge, template, trolleys & pallets.
- Equipment & plant layout preparation & assembly process simulation through auto cad & Delmia software.
- Autonomous maintenance of conveyor trolley, tool trolley, flow rack, fixture, tackle, pallets and trolley.
- Maintain & update TCF shop detail layout in the software- 3D experience Delmia & auto cad.
- Documentation preparation of equipment as per standard procedure.
- Prepare & maintain APQP documents as PFD, PFMEA, CP & AOS for new model.
- Engineering solution & facilitation of running line related to Production, Quality and safety.
- Consumable parts procurement & tool room management for TCF line.

Equipment Handled

- Material Handling: All types of conveyors like Over Head EMS, Electro Monorail, Slat Conveyors, Roller Conveyors, Belt Conveyors, Tow Conveyors, Plastic Conveyors, Chain conveyor. Vacuum Grippers, Fork Lifts, Hydra, Electric scissor lift, Boom lift, Special Engine & Tyre Handling Trucks & so on
- <u>Cranes:</u> Jib Cranes, Cranes for special application, Single Girder & Double Girder, Underslung Cranes, Aluminum Rails with Hoist, with load ranging from 0.5 ton to 5 ton
- Tools: Pneumatic tools, DC Nut Runners, Multi Spindle Nut Runners, Battery Tools, Electric Tools & Special Tools
- Robotics & Automation: Robotic glass gluing system- 2K component, Cobots, Gantry system for part handling, Manipulators, Turn Over device, RGV, AGV for frame & skid handling etc.
- Structural steel: Erection & commissioning of 500-ton structural steel for more than 30 overhead material handling system, maintenance approach infra and utility structure for 500-meter-long chassis shop.
- Decking equipment: Axle assembly, Battery pack of EV vehicle with Rail Guided Vehicle system.
- Others: Marking machine for chassis no, VIN plate, CNG plate, Bulk storage & supply system for consumables.

AISIN, Toyota group Company, Rohtak as Operational Engineer



(Aug' 17 – Feb' 19)

Responsibility-

- Design and in-house manufacturing of all types of new flow rack, kitting trolley, Jigs, fixture, inspection gauge.
- NC programming for all CNC machine as VMC, Wire Cut and EDM and supervise for conventional machine operation.
- Supervise and manage the corrective and planed preventive maintenance of all jigs and fixtures.
- Finalize machining process sequence to minimize manufacturing time and machining cost of required component.
- Ordering of consumables and cutting tools End mill, grinding wheel, EDM wire, Drill, etc. as per parts life to ensure continuous running of machine and increase of OEE and prepare OEE report of individual machine on daily basis.

Tata Motors Ltd, Jamshedpur as an Implant trainee



(Jun '16 – Jun'17)

Responsibility-

- Work instruction sheet preparation for heavy cab fitment line.
- New product implementation.
- Preparation of fixture and gauge design request.
- Variant management system (VMS) matrix sheet preparation.
- Production supervisor in cab trim line.

IDTR, Jamshedpur - Design section as 3rd year trainee



(Jun'15 - Jun'16)

Responsibility-

- Design blanking, progressive and bending press tool.
- Develop strip layout according to component size and strip size.
- Part modeling, assembly and manufacturing drawing w.r.t proper fitment and function.
- Documentation of complete design for a tool.

Significant achievements:

- Reduced operator fatigue by up to 30% & improved productivity by doing ergonomic study & implementing various assisting material handling equipment's and commonized and modular type engineering trollies' design and fixture's & tackle designs.
- Appreciation & Excellence event based reward for assembly line layout finalization for EV, CNG & Diesel.
- Appreciation & Excellence event based reward for **Zero rework**, **Zero accident** & **before time execution** of 200 ton truss mounted structure.
- Recognized for common utility structure design and BOQ finalization for air supply, fan mounting, light mounting, cable tray and X-Y rail mounting.
- 12 MINR+ combined cost saving in various projects thru Zero based costing.
- Got Excellence Reward from Vertical Head for Design and implement guided type socket for long length socket to minimize vibration of tightening tool as tool life increase by 20 %.
- Lead a quality circle team and received Gold medal in 'NCQ' event held at Jaipur.

Education

- B. Tech. (Manufacturing Engineering) BITS Pilani, WILP (2020 2023).
- Advance Diploma-4 years (Tool and Die making) INDO DANISH TOOL ROOM, Jamshedpur (2013-2017)

Personal Details

Date of Birth: 1st January 1998 Language Known: English and Hindi

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