

**Tapan Pathak** (Executive Manager - Mechanical Design) - **11 years** of work experience

**(B.E Mechanical)**

**(Functional area:** Minerals processing industry, Mining Equipment, Crushing & Screening, Road construction Equipment, Asphalt Batching Plant, Concrete Batching plant, Design & Development through 3D & 2D CAD Software, Concept Design, Engineering Design, R&D)

**Design Skills:** Any kind of 3D Products, Concept Design, Management of engineering BOM, Raw material selection, Steel tubes & Hose routing, Heavy structure design, Plate fabrication, Piping-Tubing, & manufacturing/workshop-ready 2D drawing output



**Competencies:**

- Experienced in heavy steel fabrication and large-scale weldment structures.
- Working knowledge of hydraulic systems and circuits, and schematic interpretation.
- Experience in product indigenization, focusing on local sourcing, reverse engineering, and cost-effective replacement of imported components.
- Experienced in product improvement through analysis of production and site feedback, driving design enhancements and operational efficiency
- Hands-on experience working with various raw materials and plate thicknesses up to 60mm in heavy fabrication and welding applications.

Currently working in **etrack crushers Pvt Ltd. (Keestrack Group):**  
Belgium-based Manufacturing company for Construction and Mining equipment ( Since Dec 22 to till date )

**Product being Manufactured in India :**

- Scalper – Removing the oversize material
- Jaw Crusher – Primary crusher
- Cone crusher – Secondary crusher
- Screening plant – Segregation of material
- Stacker

**Responsibilities & Skills**

- Concept making for new development
- Preparation of final 3D followed by manufacturing drawing
- Preparation and maintain of engineering BOM and manufacturing BOM
- Engine selection and its integration with both Hydraulic and electric version of machine.
- Conveyor design and engineering calculation for selected output and selection of geared motor sizes.
- Design of complete machine's hose and steel tubes routing
- Worked closely within the systems of manufacturing, quality, and supply chain functions in a typical industrial manufacturing environment.





**Speedcrafts Pvt Ltd.** : India-based Manufacturing company for Asphalt and concrete batching plants (Since Mar 20 to Dec 22)

- **Specialization:** Design & development of Complete concrete and asphalt batching plant
- Concept design followed by finalized 3D modeling of complete plant layout
- Concept design followed by finalised 3D model, thereafter 2D detailing like complete weldment drawing of each individual components
- BOM Management
- Engineering calculations for the design of each conveyor system
- Selection of geared motors for conveyors to match overall plant capacity
- Complete integration of plant systems to ensure smooth and efficient workflow cycle



Thank you!