

# CURRICULUM VITAE

## SHINDE ANAND ANIL



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**Objective:** To achieve best possible success through hard work & continuous update my personality by learning through experience.

### Professional Experience:

Company	<b>CHROPYNSKA INDIA PVT. LTD.</b>
Duration	<i>April 2023 - till today.</i>
Job Profile	<i>Manager, Powertrain (Engineering &amp; Development Department)</i>
Company	<b>Valiant-TMS Systems Pvt. Ltd, Pune, Maharashtra, India.</b>
Duration	<i>November 2012 to March 2023. (10.4 Years)</i>
Job Profile	<i>Manager, Powertrain (Engineering &amp; Development Department)</i>
Company	<b>Zippel GmbH &amp; Co. Pvt. Ltd, Pune, Maharashtra.</b>
Duration	<i>June 2010 to Nov.2012 (2.5 Years).</i>
Job Profile	<i>Sr. Design Engineer (Research &amp; Development Department)</i>
Company	<b>Filtration Technik India, Pune, Maharashtra.</b>
Duration	<i>April 2009 to June 2010 (1.2 Years).</i>
Job Profile	<i>Sr. Project Engineer (Research &amp; Development Department)</i>
Company	<b>Kirloskar Pneumatic Co. Ltd, Pune, Maharashtra.</b>
Duration	<i>8 Aug. 2005 to March 2009 (3.7 Years).</i>
Job Profile	<i>Sr. Design Engineer (Research &amp; Development Department)</i>
Total Exp.	<b>19 Years 05 months (In Design).</b>

### BRIEF WORK AREA:

- Robotic Automation solution for engine assembly.
- Robotic deburring & washing systems for engine components.
- Handling systems with Robot & Cobot as per requirement.
- Interaction with customers with new RFQ's with cost effective solutions.
- Design machines as per Industry 4.0 requirement & industry safety standards.
- Work for international customers like GM, FORD, Canoo, Nemak, Honda USA, Caterpillar, Chrysler, Cummins USA, etc.
- Handle international customers. Work with parent company Valiant Machine Tools Canada.
- Additional responsibility – Work for proposal department for powertrain projects, Work for vendor development department (Purchase department) & project management for powertrain projects.

### **MAJOR PROJECTS:**

- **Deburring Systems, Industrial washers.**
- **Robot & Cobot Handling systems, Conveyors, Gantry, Work for different AGV's.**
- **Automation & inspection stations.**
- **BIW fixturing, BIW line conveyors for underbody, Tackles for closer line.**
- **High Pressure Air Compressors, Cooling by Turboexpander by compressed air.**

**PRESENT ROLE:** Individual handling of Powertrain projects, Work for proposals & cost estimation.

Design machines as per industry 4.0 requirement & industry safety requirement. Lead design team for product development & design release. Build suppliers for product improvement. Interaction with third party safety audit to fulfil safety requirements for machine. Support installation team to smooth handover the product to the customer. Customer: TATA Cummins, Phaltan, Cummins India Limited, Cummins Jamshedpur, PSA, Daimler (Mercedes-Benz Group).

**CAD SOFTWARE'S:** Auto – Cad 2000 - 2018, Auto desk Inventor 2018, & UG NX11.0.

**Familiar with** Solid Edge V20, Catia V5R19,

### **A] Valiant-TMS Systems Pvt. Ltd.**

#### **Role & Projects:**

1. Design & Install Robotic Deburring stations & high-pressure Robotic washers for TATA Cummins Phaltan.

**Role** Develop suppliers, Project costing, Concept design, Design approval, Assembly support & trials, Installation.

2. Automation for **Automobile** sector: PRB conveyor & lifter for PSA group, PRB conveyors for main line of **Mercedes-Benz** for five countries.

#### **3. Design & Development of Robotic Battery cells**

**Role** Design welding fixtures for various sub-assembly of battery panel as per customer inputs. Design leak-testing machine for cross members of battery unit. Work on cycle time to achieve production rate.

4. **Design & develop Industrial washers, Conveyors, Grippers (EoAT), Fixtures, Vacuum bell, Cooling Tunnel.**

**Role** Design concept & layout for robotic washer (automatic) as per customer RFQ. Design fixtures, EoAT, piping for washing purposes & different tools related to washer. Guide the team members to solve the query. Co-ordinate with parent company Valiant TMS Canada. Checking of 2D detailing upload to Canada office for manufacturing. Attend the conference meeting for new line-up upload by Canada office. Guide the team for new concepts or solve queries during design & detailing. Customer GM, Alison, Chrysler, Ford, Hiram, Hirata, and United Technologies Corporation (UTC). Work on semi-automatic & manual washers. Work on leak testing machine, SPM with robot & Cobot. Coordinate with customer & North America, Canada team members.

### B] Master Zippel Ind. Pvt. Ltd.

1.Design & develop industrial washers.

**Role.** Prepare G.A. & P & ID as per customer PO. Selection of system pumps, nozzles, sensors, pneumatic cylinders, valves, gearbox & filtration system. Design the pneumatic circuit & co-ordinate with controls department. Finalized bought-out items as per P.O. offer & our standard make. Design 3D model in Solid Edge V20. Discuss the logic of machine with control department for PLC programming. Decide the safety interlocks required for the safety of operator & product. Check manufacturing drawings. List out the problem during assembly & provide solution for it. Conduct trials to prove the machine.

2.Design conveyors & turn table – Hands on power & free, powered, gravitational, overhang, chain, roller. conveyor, stop & go, pick & place, lift & carry up-down machines.

**Role.** Design conveyor based on type of component/application of conveyor. Design role selection of motor as per torque & gearbox as per reduction speed, sprockets etc. Select material for handling system.

3. Design Fixtures for components like cylinder head, cylinder block & crank shaft for washing purposes.

4. Design work on sheet metals.

**Role.** Develop & design enclosure for industrial washers. Work for **nesting** of all cutting parts. Selection of foams as per applications. 2D drawing checking.

5. Design & Develop filters for Industrial washers. Design **shell type** high- & low-pressure filter. Filters with

**Self-cleaning** arrangement. Design & develop **magnetic filter** for metal chips. Design & develop by re-engineering **disc / belt type oil removal filters**. Design & develop **Paper band filter & Up-flow filter** for Industrial washer's application.

**Extra Activity:** To save project cost build inhouse different air nozzles for drying system, Develop magnetic chip removal filter for industrial washers.

### C] Filtration Technik, India.

1.Design high-pressure Piping.

**Role.** Design high-pressure piping for air/gas for product filters & dryers. Conduct on-site trials for new proto-type filters. Conduct trials on air dryers for high & low-pressure air.

2.Prepare air-piping layout for customer approval also prepare BOM & quote for new orders. Visit customers.

**Role.** Prepare layout & BOM for proto-type project. Prepare specification sheet for bought-out items. Conduct meetings with suppliers for new development, conduct trials as per standard. Develop new vendors as per the policy of the company to reduce costs & to avoid monopoly of suppliers.

### D] Kirloskar Pneumatic Co. Ltd.

1.Design & engineering of reciprocating compressors for air & gas.

**Role.** Prepare layout, P & ID for compressor for customer approval. Selections of cylinder combination for build require pressure & CFM. Selection of drive, valve, heat exchanger. Design air piping for compressors. Release BOM as per customer requirement. Conduct trials for CFM & pressure.

2.Design & testing Heat Exchanger (Cooler).

**Role.** Prepare specification sheet of heat exchanger for material required heat exchanger area available. Inlet Temp. Outlet Temp. Required. Discuss the specification with approved supplier for manufacturing. All designs with reference to ASME code & space available. After manufacturing approval & check test certificates as per standard. Conduct in-house trials for dispatch.

3. Sheet metal & structure design.

**Role.** Design enclosed canopy for screw compressor. Develop 3D model in inventor for mounting details & opening, then prepare 2D detailed drawings with laser cutting drawing details. Testing of canopy for noise level reduction & vibration.

## PROJECTS:

### Reciprocating Compressors:

1. Engineering & development of new products related mainly to Air & Gas compressors.
2. Development of existing products as per customer requirements.
3. Solid modeling of component in **Autodesk Inventor Professional 10** & prepare manufacturing drawing in Auto-CAD 2000 & 2007.

### Screw Compressors:

Design & Develop screw compressor for oil, dust & moisture free air for special application. Conduct various trials in-house & site for customer approval.

### Special Projects:

- 1. Service Air Trolley (SAT-650, SAT-300, SAT-800 & SAT-800E):** Develop mobile air-cooling trolley for Sukhoi Aircraft application (Mobile AC for Defence). Detailing & Trials for new engine in house.
- 2. Nitrogen Generating Station:** Mobile Nitrogen generating, storage and transportation station for Sukhoi Aircraft application. This is the unique product that involves, on site generation of Nitrogen, boosting to 350 bars, and drying to ultra-low dew point as low as (-) 95 °C (Mobile unit for Defence).
- 3. Oxygen Charging Delivery Vehicle:** Oxygen charging vehicle for Aircraft application & Medical Purpose. Up to pressure 350 Bars. Role Detailing of parts & help in R & D assembly shop.
- 4. M.A.C.V. & KG5H (High pressure compressors)** Compressor builds pressure 750-850 Kg/cm<sup>2</sup> pressure. Use mainly for missile launching & other defence application. Work for R & D assembly shop.
- 5. D.M.D.E. (High Pressure 500 bar)** Detailing high pressure compressor. Output pressure is 400 bar. Special design for defence application.

**Role.** Modeling 3D & 2D detailing of compressor prepare BOM & submit for release.

Client: - H.A.L., Indian Railway, Cement, Textiles, Paper, Chemical, Automobile, food, Construction industries.

**Standardisation** of various components to reduce Verity (Inventory) to save assembly time, save cost of product before & after sale.

### Knowledge of various:

**IS** Standards for design various components & testing, **ASME & TEMA** code for heat exchanger design, **API** Standards for various valve design, also refer various Standards for manufacturing & coating. Also have of various International & Military Standards knowledge.

**Education Qualification:**

Pass **B.E. (Mechanical) in 2005 from B.V.C.O.E. Pune.**

Pass **H.S.C.** from R.B.N.B. College Srirampur.

Pass **S.S.C.** from K.J.S. High School, Srirampur.

**B. E. Project: Automatic Chalk Making M/C**

**Description:** Design of Geneva Disc, Geneva Cam, Selection of 1. Chain 2. Motor & 3. Gear Box.

**Seminar: Flight Data Recorder.**

**Extra Activities:** Table Tennis player, Swimming Champion

**Personal Profile:**

**Father's Name** : Dr. Anil Mahadeorao Shinde

**Date of Birth** : 27<sup>th</sup> Feb. 1980

**Gender** : Male

**Nationality** : Indian

**Marital Status** : Married

**Languages Known** : English, Hindi, and Marathi.

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(Shinde A.A.)