

# Alkesh Kharche

Vill: - Shelapur KD,

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## Summary of Experience: -

- Total **5+ years** of Experience in Electrical Wiring Harness Design & Development in Automotive and non-automotive (off road construction and mining vehicle) Domain.
- Experience on concept and final electrical component packaging, Harness 3D routing/DMU with electrical routing module using Catia V5.
- Complete experience on wiring harness protection and routing standard.
- Experience on Selection of electrical wiring harness components (Wire, fuse, relay, connector, terminal etc.) as per requirement.
- Experience on creation of electrical circuit schematics and its connectivity as per requirement.
- Experience on Prepared final 2D drawing with inserting all input using Capital harness Xc (CHS), Auto cad and Catia V5.
- Experience on discussion with supplier for DFM and finalizing WH development and close design related issue & queries.
- Experience on discussion with CFT team for DFA, DFS & DFM queries and taking document sign off.
- experience on PLM, Teamcenter Data management tool, BOM compare, ECN release activity.
- Complete experience on wiring harness testing, continuity testing and rework.
- Experience on wiring harness Manufacturing, Design process and reverse engineering process.
- Experience on generating different report like BOM, report on wires, Report on whole harness.
- Experience on preparation of splice chart.
- Experience on worked as a customer support including problem finding, giving solutions for the same and implementation.
- in manufacturing from Wire Cutting, Terminal Crimping, Sub Assembly, Final Assembly, Continuity Testing, Electrical Testing and Quality Inspection.
- Experience on wiring harness testing, continuity testing and rework.
- Experience on wiring harness Manufacturing, Design process and reverse engineering process.
- Experience on generating different report like BOM, report on wires, Report on whole harness.
- Experience on preparation of splice chart.
- Experience on worked as a customer support including problem finding, giving solutions for the same and implementation.

## Education Qualification: -

Examination	Institution	Percentage/CGPA	Year
S.S.C	Shri Anantarao Saraf Vidyalaya Slepapur BK	73.80 %	2012
Diploma in Electronics and Communication Engineering	LAMIT Damangaon RLY.	67.53 % CGPA	2017
B.E in Electrical Engineering	Dr. V. B. Kolte Collage of Engg. Malkapur	6.89 % CGPA	2023

## **Work Experience: -**

Organization	Employer	Designation	Tenure
Tata Motors Limited Jamshedpur	Tata Technologies Pune	Assistance Engineer (Wiring Harness)	June 2022 to till date
Vectra Advance Engg. PVT LTD	Sphinx Worldbiz Limited	Wiring Harness Design Engineer	Sep 2021 to Apr 2022
BHARAT MECHATRONICS PUNE	BHARAT MECHATRONICS PUNE	Wiring Harness Design Engineer	March 2018 to Sep 2021

## **Current Organization: -**

- 1) Working as **Assistant Engineer** in Electrical Wiring harness department with **M/S Tata Motors Limited** through Tata Technologies Ltd. Jamshedpur (Since June 2022-Till date).

## **Job profile: -**

- Understanding project scope and project delivery on time plan.
- Design & Development of Wiring Harness for Truck from range of 19T to 48T RDE.
- Preparing concept electrical component packaging, Harness 3D/DMU routing with electrical routing module (WH Routing) of electrical wiring harness - Dashboard WH, Tail WH, ABS WH, EGP WH, SCR WH, Engine WH, Maxi Fuse WH, RPAS WH and battery cables in CATIA V5.
- Selection of electrical wiring harness components (Wire, fuse, relay, connector, terminal) as per requirement.
- Creation of electrical circuit schematics and its connectivity.
- Preparing final DMU/3D model with protection and routing standard (WH Routing) of electrical wiring harness - Dashboard WH, Tail WH, ABS WH, EGP WH, SCR WH, Engine WH, Maxi Fuse WH, RPAS WH and battery cables in CATIA V5.
- Prepared final 2D drawing with inserting all input using Capital harness Xc (CHS).
- Discussion with supplier for DFM and finalizing WH development and close design related issue & queries.
- Discussion with CFT team for DFA, DFS & DFM queries and taking document sign off.
- Preparing installation drawing of 3D model with assembly instruction for manufacturing.
- Working 3D and 2D design release in PLM, Teamcenter Data management tool, BOM compare, ECN release activity.
- Supporting & attending proto vehicle build and their issues.

## **Project Details: -**

- 28T, 35T & 48T truck with 5 L Engine (TATA)
- 28T truck with 5.6 L Engine (Ashvamedha)
- 35T, 42T & 48T truck with 6.7 L Engine (Atulya)

## **Previous Organization: -**

- 2) Worked as **Wiring Harness Design Engineer** with **M/S Vectra Advanced Engineering Pvt Ltd. Surjpur, Greater Noida (U.P.)**. (Since Sep, 2021 – Apr 2022).

## **Job Profile: -**

- Understanding project scope and project delivery on time plan.
- Finalization of electrical component like sensors, alternator, starter motor, APM, engine wiring harness, ECU etc. and take care the packaging as well.
- Design & development of electrical wiring harness system (prepare schematics and bundle diagram by using Auto cad.
- Selection of wiring harness component and protection as per requirement.
- Prepare 3D model of electrical wiring harness – Dashboard WH, Chassis WH, WH LH & RH Pannel (3D assembly & wiring harness routing) by using Creo PTC.
- Prepared final 2D drawing with inserting all note and data which is easy to understood production people.
- Creation of BOM and Address Sheet which will be better to understand wiring harness and calculated the material cost.
- Discussion with supplier for finalizing component development and design related queries and discuss RTS points.
- Involved in fitment trials and identifying manufacturing (part fitment) issue, taking corrective action and implementing in design for the same.
- Support the Engine and Bosch team for BS4 engine and ECU testing.
- At ICAD testing center I have help ICAD technician doing the electrical testing.
- Prepa6re installation drawing of 3D model with assembly instruction for manufacturing line.
- Prepare Design Review Check sheet as per component.
- Prepare DFMEA document for electrical wiring harness.
- Analyzing field & line issues and implementing corrective action in design.

## **Project Details: -**

- Skid Steer Loader With 28 HP, 48HP & 75HP BSIV Engine.

3) Worked as **Wiring Harness Design Engineer** with **M/S BHARAT MECHATRONICS PUNE. Moshi, Pune (MH).** (Since **March, 2018 – Sep 2021**).

## **Job Profile: -**

- Received the input from customer.
- Prepare 3D model of electrical wiring harness – Dashboard WH, Chassis WH, Engine WH, Two-wheeler WH, Three-Wheeler WH (3D assembly & wiring harness routing) by using Catia V5.
- Creating Electrical Harness Flattening and Drafting.
- Preparation of circuit schematic as per data received form customer.
- Selection of component as per customer requirement.
- Preparation of cutting chart, spice chart.
- Protections and insulations marked in the drawing as per the predetermined symbol.
- Prepared final 2D drawing with inserting all input which is easy to understood production people. Creation of BOM and Address Sheet which will be better to understand wiring harness and calculated the material cost.
- Preparation of process flow diagram.
- Manufacturing of PROTO sample as per design data & trial at customer end.
- Support to customer to solved proto build issue.

### **Project Details: -**

- Client: Tarle Construction Equipment Pvt Ltd. Nashik (Concrete Mixer Vehicle)
- Client: BHARAT FORGE LIMITED Pune (MILITARY TC20 VEHICAL WH)
- Client: Ward Wizard Innovation & Mobility Limited Gujrat (joy-e-bike Two-wheeler)
- Client: Atul Auto (Three-wheeler)
- Client: Godawari Electric Motors Pvt Ltd (Three-wheeler)
- Client: M.G Auto (Three-wheeler)
- Client: Greaves Cotton Ltd Pune (Generator)

### **Soft Skills: -**

- Catia V5
- PLM
- Capital Harness Xc (CHS)
- AutoCAD.

### **Personal Details: -**

- **Father's Name** : - Nilkanth Kharche
- **Mother's Name** : - Kalpana Kharche
- **Date of Barth** : - 18 April 1996
- **Marital Status** : - Unmarried
- **Gender** : - Male
- **Language known** : - English, Hindi, Marathi
- **Nationality** : - Indian

### **Declaration: -**

I hereby declare that the information given here with is correct to my knowledge and I will be responsible for any discrepancy.

Date: -

Alkesh Kharche  
Mob: 9561038331