

CURRICULUM VITAE

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OBJECTIVE:

To perform & work smartly so as to achieve supreme height in new business development.

PROFESSIONAL SUMMARY:

- Working in Research & Development with 7 years of experience.
- Experience across the domain like **product design & development**.
- Experience in the field of **Electro-mechanical**.
- Design & Development of different product range across **MV switchgear**.
- Experience of different type testing for switchgear product as per **standard set by IEC**.
- Experience in **Concept development, Reverse engineering, Component design**.
- Experience in Design of **Sheet metal Enclosure and Rubber parts**.
- Propose diverse concept & transform design with self-motivation & initiation.
- Work as per requirement & organization needs along team with implementation of new concept.

WORK EXPERIENCE:

Organization: Siemens Ltd, Mumbai.

Designation: Executive-Research & Development (Dec 2015 to present)

- Design & Development of insulating components for different ratings.
- Arrangement of Earthing switch for localization product wrt global product.
- Design, development & type testing of 5 Compartment Switchgear for prime customer.
- Support global R&D team for development IAC LSC-2A panel.
- Conducting design reviews & brain storming with SAG for design improvement & global release.
- Product validation for different environmental conditions wrt rated current.
- Cost reduction of different product range for business development.
- Work in line with Germany for functional & process co-ordination.
- Understanding customer requirement & support sales team to confirm technical obligation.
- Use CAD tool for Design finalization & to reduce iteration in project accomplishment simulation.
- Optimization of different compartment sizes with respective design feature.
- Design, Development, prototyping & testing of Vacuum Circuit Breaker & Panel as per IEC specification & market requirement.
- Support DTO team for developing nonstandard execution & confirmation.

- Design of power circuit with copper & aluminium components for different current rating.
- Prepare Bill of Materials, Generating part specifications in the database, creating part drawing, welding drawing & Assembly drawings.
- Resolving manufacturing assembly issues for product improvement & reduction in assembly time to save cost SMH.

Organization: Crompton Greaves Ltd, Nasik.

Designation: Executive-Research & Development (April 2013 to Dec 2015)

- Benchmarking with all parameter of competitors product for best prospect & cost effective.
- Concept development, finalization of GA & design with cross functional team for ease of development.
- Analyzing, validation of features & concept to develop standard panel & housing.
- Developed design guideline for sheet metal components
- Developed 40kA-1s Internal arc- AFLR panel for International test certification.
- Design & developed VCB transport trolley for midmounted breaker.
- Used convection technique & developed louver, sheet metal component for thermal requirement of enclosure & current carrying parts.
- Knowledge of Type testing: High voltage test, Temperature rise, Internal arc, STC, IP Test, Internal Arc Test and Mechanical Endurance Test.
- Witness ASTA, ERDA for different type testing.
- Support manufacturing & Inline quality team for execution of zero batch product & execution of first order for newly developed product.
- Preparation & release for new product catalogue's along with sales team.
- Familiar with manufacturing & machining process, sheet metal fabrication, plastic parts GD&T.
- Vendor coordination for the ease of manufacturing & assembly of prototypes.
- Performing six sigma tools such as FMEA, root cause analysis, FBD for new product development.

Organization: Siemens Ltd, Nasik

Designation: Apprentice Trainee + Executive: Product Development (March 2011-April 2013)

- Development of 8MF industrial cabinet & drive panel.
- Prepared model, assembly, welding drawing of sheet metal component for manufacturing.
- Designing wire harness for different cabinet.
- Development of TOT project for manufacturing feasibility & customer requirement.
- Validation of process, quality check, FSI at vendors end.
- Taking feedback from vendor & making corrective action while manufacturing.
- Prototyping at vendor end & In-house IP testing of panel.
- Preparation of quote for product finalization & vendor compare.
- Training of PLM software: Teamcenter R3 V6.

Cost reduction / Quality improvement:

- Material selection, implementation of different process & innovative concepts for peak performance of product and customer satisfaction within timeline.
- Analytical reasoning, striving hard to achieve cost reduction without compromising quality and functional ability of product.

Achievements:

- Developed VCB & Panel along with the team from scratch within timeline.
- Design & development of Internal arc panel for 40kA-1s.
- Successful design for Earthing bus circuit for 40kA-3sec Short time withstand current & validated same by type test at ERDA lab, Baroda.
- Design drive panel so as to pass for Ingress Protection class test by using Louver at Siemens.
- Development of non-standard design & validation as per customer requirement.

Performance Skills:

- Innovative thinking, cost optimization, risk management planning, analytical skills.
- Project management, designing skill & validation of product by type testing as per IEC.
- Hands-on experience with 3D CAD software like Unigraphics NX, Autodesk Inventors.
- Strong presentation and communication skills and ability to document the work output.
- Ability to draw useful inference / conclusions with the available information.

ACADEMIC DATA:

- M.Tech (Design 2015): 8.34 CGPA from RGPV University.
- B.E (Mechanical 2010) with 63.27% from University of Pune.

PERSONAL DETAILS:

- Name : Tushar Chandrakant Hire.
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- Date of birth : 28 May 1988.
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I certify that all the in turn provided by me in this relevance is correct and comprehensive to the best of my knowledge.

Tushar C Hire

Unrestricted