

**SENTHIL**

 **[HVAC Engineer]**

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**Looking for a challenging career in HVAC Mechanical Engineer– New Product Development**

**PROFESSIONAL SUMMARY**

* Mechanical Engineer with **10+** year of experience **HVAC product development and project management** as per the customer specification in Air-condition.
* Competent in developing optimal product designs for single package unit, ventilation, Chillers products and ensuring product / process robustness; trained in **problem solving techniques**, leadership, quality parameters and compliance.
* Broad and deep knowledge of **project cost control** and to provide the highest product qualityas per customer requirement.
* Adept at functioning well both as a team member and independently.
* Completed **Master’s degree** in Mechanical (CAD/CAM) in the year of 2007.
* Strong ability to work with a diverse group of people from different backgrounds; interacted with overseas clients from Saudi Arabia, Australia, Thailand and Europe; exposure of **worked in South Korea.**

**CORE SKILLS:**

* HVAC Product Development - Troubleshooting
* Project Management - Vendor Co-ordination
* Cost control activities - Quality Compliance

**EMPLOYMENT DETAILS**

**Phoebus Air conditioning Pvt. Ltd., Haridwar July’16–Apr’19**

Senior HVAC Engineer

* Undertook the responsibility to develop Indoor parts; reviewed Engineering/Design changes.
* Responsible for field training of clients in the install and troubleshooting of **Chiller, Ventilation** and **Single Package** products
* Managed the HVAC project’s, prepared their schedule and **estimated**Cost.
* Ensured that all HVAC equipment’s in the plant were in accordance to the engineering **standards and codes**.
* Performed **troubleshoot** on the HVAC equipment and installed the equipment according to the requirement.
* Performing ESP calculation for **Chiller**& Ventilation fans
* Perform the cost **reduction** activities of the required equipment’s.

**LG Electronics, South Korea Mar’10 – Dec’15**

***Key Assignments***

Project Assistant Apr’15 – Dec’15

***Project:****Ventilation Eco-V system 1000 CMH Model development for LG Electronics – Turkey Subsidiary*

* Objective of the project was to design an efficient model withhighest efficiency performance
* Developed and **audit**ventilation HVAC systems and associated components.
* Scheduled the timeline of project and prepared **the estimated budget** for the same.
* Test the product in **test chamber** and validate the product as per customer requirement.
* Performing **Heat Load calculation** for the selection of **Ventilation** and **Chilled Water Pumps**.
* Delivered **PowerPoint presentation** to facilities engineering department underlining importance of equipment selection

Project Assistant Jun’13 – Mar’15

***Project:****Chiller Model Development for LG Electronics – Saudi Arabia &UK Subsidiary*

* Project was undertaken for design and development of cost saving ways for the shopping mall project’s
* Led a team of Engineers and Designers; **co-ordinated with vendors** for timely procurement of quality products for model design’s
* Prepared drawings, obtained approval on **design and pricing**;
* Designed the sketches for the pipe and ductwork and prepared the layout for the same.
* Performed **field surveys**; produced system evaluation reports and recommendation’s

Research Engineer Mar’12 – Jun’13

***Project:****Ceiling Cassette 1.5 TR type Model development for LG Electronics – Thailand, Australia Subsidiary*

* Played a significant role in preparing and designing cassette and piping systems for model development; monitored the performance; **conducted NPI, DRBFM & FFR analysis**
* Co-ordinated with vendors and customer; ensured cost and time effective project solution’s

Research Engineer Mar’10 – Mar’12

***Project:****PCBA defect rate reduction for Room& Commercial AC models*

* Accountable for productivity improvement of the process and equipment’s
* **Conducted DFM & DRC process** as per defined standard’s
* Audited all PCBA process, collected data and performed periodic evaluation
* Analysed and tested mechanical concepts of competitor’s

**PREVIOUS EXPERIENCE**

**Minda Industries Ltd., Pune Aug’07 – Feb’10**

***Key Assignments***

Assistant Engineer Sep’09 –Feb’10

***Project:****Fog, Tail Lamps development for Tata Motors& Ford Motors*

* **Conducted audits** to ensure quality of the delivered product; analysed and mitigated failure modes during PPAP audit
* Co-ordinated with vendors for timely supply of raw material
* Supervised Lamps line and audited for development

Research Engineer May’09 – Aug’09

***Project:****World TruckTail Lamps development for Tata Motors*

* Project was initiated with an objective to develop cost effective LED Tail Lamp
* Conducted Value Analysis and Value Engineering for the product; drafted documentation related to **APQP, and PPAP quality audits** as per customer requirements
* Tested the product and ensured adherence to TS-16949 Standard
* Result: Key role in achieving project **cost save worth of Rs.77 Lakhs**

Research Engineer Aug’07 – Apr’09

***Project:****Fog, Tail& Roof Lamps development for TataMotors, Ford Motors and General Motors*

* The project was undertaken for developing and improving the quality of Tail Lamps
* Studied the Roof lamp LED design feasibility
* Carried out patent research for automobile lights
* Designed Y-1 Tail Lamp for Tata Motors Ltd.

**EDUCATION**

* Master of Technology in CAD/CAM, Vellore Institute of Technology-Vellore in **2007**
* Bachelors of Engineering (Mechanical) from CAHCET-Melvishram in **2004**

**TRAINING:**

* Computer Aided Linkage Simulation, and Advanced Aerospace Manufacturing
* Pursuing **Project Management Professional (PMP)** Training from **Skillsoft**

**IT & TECHNICAL SKILLS**

General Software : MS-Word, Excel, PowerPoint and Outlook

Modelling Software : UG NX5, SolidWorks, AutoCAD and Zuken 5000

**PERSONAL DETAILS**

Languages Known : English, Hindi, Tamil and Korean (Basic)