

## **RESUME**

### **Nimesh Prajapati**



DME, BE ( Mechanical Engg.)

Mob: +91-9687133492

+91-8866892501

E-mail id: [nimsideas@yahoo.in](mailto:nimsideas@yahoo.in)

[nimeshideas@yahoo.in](mailto:nimeshideas@yahoo.in)

[nimonicideas@yahoo.com](mailto:nimonicideas@yahoo.com)

Skype id: nimonicsone

### **Career Objectives:**

To get the growth oriented position in the field of technical well as non technical line with dedication & commitment.

### **Summary of Skills:**

#### Energy Modeling & Simulation Skills:

- Energy Modeling & Simulation using eQuest 3.64
- Energy modeling for Building as per Baseline appendix - G, ASHRAE 90.1
- Energy modeling for Buildings as per energy star - NYSERDA guidelines
- Suggesting HVAC systems for Proposed Buildings
- Analyzing different HVAC system performance for Existing or Proposed buildings
- Heat load estimation & Calculations
- HVAC systems & Plants compliance as per ASHRAE 90.1
- Comparing existing or proposed HVAC systems against Baseline ASHRAE 90.1
- Energy Modeling & Simulation for EPACT Certification
- Designing HVAC systems as per ASHRAE 90.1, 62.1 requirements.

#### Energy Modeling Projects Done using eQuest 3.64:

##### 1. Client: US Engineers USA - Energy Modeling & Simulation for EPACT Certification Projects

- Family Express - Valparaiso Store
- Family Express - Westville Store
- Family Express - Plymouth Store
- 2E Futon - Fulton Property Holding LLC, Grand rapids, Michigan
- Chapel Complex & Religious Education Facility, Fort hood - Texas
- Moore Memorial USARC Building, Bryan - Texas
- Moore Memorial AMSA Building, Bryan - Texas
- SF Supply Building, Grand Rapids - Michigan

- 38 Commerce Building
- MPP Facility Building
- Ryan Industries

## 2. Client: MCW Energy Modeling Center of Excellence - USA

- eQuest Model Creation for the existing building#77-OVC learning Center
- eQuest Model Creation for the existing building#158-University of Guleph

## 3. Client: ALTANOVA Energy+Sustainability - USA

- Baseline Model creation for the Multifamily Building as per appendix - G ASHRAE 90.1-2007 & also following energy star & NYSERDA guidelines.

### HVAC Design & Analysis Skills:

- Heat load Estimation & Calculations for Industrial Buildings
- HVAC Units / Equipments selection
- HVAC Systems Fan Selections
- Preparation/approval of GA drawings of AHUs, FCUs, Exhaust Fans etc.
- Preparation of Air flow diagrams
- Preparation of Ducting layouts for HVAC Systems
- Preparation of Piping layouts for HVAC Systems
- Preparation of Tender specifications & BOQs
- Taking approvals of working Drawings from Consultant / Client
- Preparation of User requirement specification
- Preparation of Technical specification of equipments like AHUs, FCUs, Pumps, Chillers etc.
- Coordination between Client / Consultant / Vendors
- Technical Bid Analysis
- Vendor Documents Reviews
- Vendor / contractors / Subcontractors Control & coordination
- Aware of API and Formulation facility of Pharma sectors
- Preparation / Approval of document like DQ & IQ , OQ & PQ
- Preparation of Purchase Requisition as per BOQ
- Site Control activities
- Project Execution & Commissioning

### HVAC Industrial Projects Done:

- New Insulin Facility, Torrent Pharmaceutical Ltd – Indrad
- Stability Block, Ranbaxy labs Dewas – Indor
- Revamping & Modification of Block A, Ranbaxy labs Dewas – Indor
- Revamping & Modification of Block B, Ranbaxy labs Dewas – Indor
- Expansion & Modification of Block C, Ranbaxy labs Dewas – Indor
- Warehouse Block C, Ranbaxy labs Dewas – Indor
- New Packing Area, Torrent Pharmaceutical Ltd – Indrad
- API Module – F, Torrent Pharmaceutical Ltd – Indrad
- R M Warehouse – API , Torrent Pharmaceutical Ltd – Indrad
- R M Warehouse – Formulation , Torrent Pharmaceutical Ltd – Indrad

## Software Skills:

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- eQuest 3.64 (For Building Energy Modeling & Simulation)
- energyplus 7.1 (For Building Energy Modeling & Simulation-*learning*)
- N++ (Energyplus GUI-*learning*)
- Simergy (Energyplus GUI-*learning*)
- EP Quick (Energyplus Input GUI)
- Climate Consultant 5.4
- eQ\_Wth
- D2SimViewer (For Analyzing eQuest Building Sim results)
- xEsoview (For Analyzing Energyplus results)
- Comcheck
- Google sketchup8
- Auto CAD 2D 2012
- TACO Load (For Heat load Estimation)
- TACO System Analyser (For Analyzing HVAC System)
- Venti 3.1.2 (For HVAC System Fan selections)
- Mcquay 6.4 Duct Sizer (For Duct Sizing)
- TRANE HDPysChart
- Humid Air
- PRO-E (Part Modeling)
- Blender 2.63 (Basic Building Modeling)

## Standards & Codes Known:

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- ASHRAE 90.1-2007
- ASHRAE 62.1
- ASHRAE 189
- ASHRAE 140
- SS530
- SS553
- Green Mark point Scheme, Singapore

## Work Experience:

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### **Hitech Cadd services. (HVAC Design Engineer & Energy Modeler)**

(Working as HVAC Design Engineer & Energy Modeler for US based Company US engineers From 18<sup>th</sup> Feb. 2012 to Till date)

- Energy Modeling & Simulation using eQuest 3.64
- Energy modeling for Building as per Baseline appendix - G, ASHRAE 90.1
- Suggesting HVAC systems for Buildings
- Analyzing different HVAC system performance for Existing or Proposed buildings
- Heat load estimation & Calculations
- Building Envelope selection Analysis
- Building insulation material analysis
- Interior lighting analysis
- HVAC systems & Plants compliance as per ASHRAE 90.1
- Comparing existing or proposed HVAC systems against Baseline ASHRAE 90.1
- Energy Modeling & Simulation for EPACT
- Designing HVAC systems as per ASHRAE 90.1, 62.1 requirements.

**Torrent Pharmaceutical Ltd. (HVAC Project Engineer)**

(Worked as HVAC Project Engineer From 7<sup>th</sup> Jan. 2011 to 17<sup>th</sup> Feb 2012)

- Preparation of User requirement Specifications
- Costing & Budgeting of Projects
- Designing of entire HVAC systems as per the User requirement Specification
- Evaluating Tender documents, drawings & Schedules
- Equipment Selections
- Floating Enquiries to Suppliers/ Manufacturers
- Comparison Studies based on Suppliers Quotations
- Duct Layout / Piping Layout Design , ISHRAE ASHRAE, SMACNA & P&ID'S
- Ensure proper cost estimation of Equipments
- Preparation & Approval of Technical Recommendations
- Coordination with Consultant & Contractors
- Preparation & Approval of Drawings
- Preparation of Project Schedule in Excel sheet
- Detailed Planning, Preparation of BOQs, Quantity Estimation
- Procurement of Material
- Installation of equipments
- Execution activities, Commissioning of the Plant etc.
- Preparation/ Approvals of Protocols – URS,FRS,DQ,IQ,OQ,PQ
- Review & document MEP contractors bills
- Supervise contractors work progress on site and monitor adequacy of resources and equipment
- Supervise contractors work quality and compliance with design documents & codes

**Suvidha Engineers India Pvt Ltd. (HVAC Engineer)**

(From July 2008 to 6 Jan. 2011 worked as HVAC Planning / Design / Project Engineer)

- Designing of entire HVAC systems, Heat load calculations
- Preparation of Air flow diagrams
- Ducting & Piping layouts and all Working Drawings required for project execution
- Detailed Planning, Procurement of Material
- Coordination between Client / Consultant / Vendors
- Taking approvals of working Drawings from Consultant / Client
- Project Execution & Site Control activities
- Commissioning of the Plant and Handover of Project
- Preparation of Material supply & installation Bills, Billing Collection

**Suvidha Engineers India Pvt Ltd.**

( Worked as a HVAC Sales Engineer for 6 months after completing Diploma)

**Suvidha Engineers India Pvt Ltd.**

(From Oct 2004 to June 2005 as a HVAC Project Trainee Engineer as Part of Education Curriculum)

**Patel Airtemp Ltd.**

(From Jan 2003 to March 2003 as a Trainee Engineer as Part of Education Curriculum)

### Computer Skills:

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- MS Office 2010
- C - Language

### Academics:

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Examination	Board/University	School/College	Year of passing	Percentage
B.E (Mechanical)	Sardar Patel University, V V Nagar	BVM College Of Engineering, V V Nagar	2008	CPI : 8.14
DME (Mechanical)	Nirma Institute of Diploma Studies, Ahmadabad	Nirma Institute of Diploma Studies, Ahmadabad	2005	CPI : 8.5
S.S.C	G.S.H.E.B, Gandhinagar	New Gayatri Vidyalaya, Chandkheda	2001	85.29 %

### Academic Project Done:

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Made Working Model of Close loop control system used in CNC machines.

### Personal Details:

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Name : Nimesh B Prajapati  
Date of birth : 3<sup>rd</sup> March, 1985  
Nationality : Indian  
Marital status : Married  
Language known : English, Gujarati, Hindi  
Hobbies : Reading, Singing, Thoughts collection  
Address of Communication: R/22, Dharati Row house,  
Near Rajeshvari Society,  
Opposite Railway Station,  
Chandkheda, Ahmadabad – 382424,  
Gujarat, India.

### Extra Curricular/Achievements:

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- Got 2nd prize in the General Knowledge Quiz Competition held by MESO in the year 2003.
- Got 1st prize in the general knowledge quiz event of ZENITH-2003.
- Participated in Quiz, Essay, and Hastshilp competition in EVALANCHE-2006.
- Taken one month training of Designing of HVAC systems at Hyderabad in year 2008.
- Attended Two day Seminar on Effective Supervision in Jan. 2012.

**Declaration:**

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I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

**Place:****Date:****(Nimesh Prajapati)**