Anas Zaidi

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Date of Birth	24/02/1989
Nationality	Indian
Marital Status	Married
Languages Known	English, Hindi & Urdu
Speciality	Energy Modelling Specialist, Sustainability Consultant & HVAC Design Engineer
Experience	**3 years & 9 months**
Educational Qualification	M.Tech (Mechanical Engineering – Industrial & Production) with 9.4 CPI, AMU, Aligarh B.Tech (Mechanical Engineering) with 9 CPI, AMU, Aligarh Diploma in Engineering (Mechanical Engineering - Refrigeration and Air-conditioning) with 86%, AMU, Aligarh
Certifications	LEED AP BD+C WELL AP GRIHA Certified Professional (from April 2016 to April 2018)
Employment record	
March 2018 – May 2018	Energy Modelling Specialist (Consultant), Anotech Energy LLC, Abu Dhabi
December 2015 – March 2018	Energy Associate, GreenTree Building Energy Pvt. Ltd
August 2014 – December 2015	Design Engineer (Mechanical) & Energy Modeler, ADG International
Relevant professional experience	
Mar 2018 - May 2018	Following tasks were performed during the short-term job of 2 months: • Energy Modeling on IESVE 2017 software for ASHRAE Level 3 Energy Audit of 4 Office/Laboratory existing buildings located in Saudi Arabia. Based on field data collected Baseline Model was created and 12 ECMs were suggested to improve Building Energy Performance by optimizing its HVAC system and Building Envelop. These ECMs are going to be implemented on site and the claimed energy savings to be achieved. • CFD analysis for VOX Cinemas (3 type of theatres) in one of the Dubai mall was carried out using IESVE software.

Dec 2015 - Mar 2018	Able to facilitate Green Building Certification process under LEED, WELL, GRIHA and IGBC Rating System and proficient in Energy Analysis, Daylight Analysis, Feasibility Study, Solar PV design & Solar Collector design for all project types. Key projects handled are as follows: • Detailed Energy Modeling is done for more than 10 projects of New Zealand, which includes offices and schools, on **IESVE** as per GreenStar Rating system. All these projects were done for a Green Building Consultant in New Zealand on behalf of GreenTree Building Energy Pvt. Ltd. under non-disclosure agreement. The project includes Energy modeling in compliance with GreenStar Green Building Rating System, EECA 2A Study (ECMs to Optimize Building Envelop) & EECA 2B study (ECMs to Optimize HVAC systems and Lighting). • Energy Modeling for various buildings is done as per LEED on eQuest under non-disclosure agreement: -Library (LEED V3) – 5,000 sqft GFA -Manufacturing Facility with office space (LEED V3) – 1,56,500 sqft GFA -Office (LEED V4 NC) – 60,946 sqft GFA -Office (LEED V4 CS) – 96,730 sqft GFA Other projects include: • Marriott Hotel, Kathmandu, Nepal - Hotel (Energy Modeling for USGBC LEED NC V3 on eQuest) • SimpleTree LightHouse, Dhaka, Bangladesh - Office (Energy Modeling for USGBC LEED CS Rating System & Daylight Analysis on IESVE; Feasibility Report & OPR Preparation) • Mansion de Salam, Dhaka, Bangladesh - Residential (Energy Modeling for USGBC LEED NC Rating on eQuest) • Precertification of Amila Hills Hotel, Shimla and Uppal's Ritz Carlton Hotel, New Delhi (Energy modeling was also performed as per LEED V4 on eQuest to identify potential savings at initial design stage based on data available and assumptions. Also ECMs were performed and communicated to client to enhance energy efficiency) • IIT Delhi, Lecture Theatre & Lab Complex, New Delhi (Daylight Analysis for GRIHA Rating System on Ecotect) • Akshaya Urja Bhawan (HVAC, Energy Analysis, Solar PV and Solar thermal Collector calculations for Report for Tender to design Net Positive Energy Building using following software: HAP, Ecotect; RETScreen and eQuest) • AIIMS Surgical Block - Hospital, New Delhi (Energy Analysis for GRIHA Rating System on eQuest) • Ajnara Corporate Office, Noida (Energy Audit for lighting and HVAC systems) • NTPC- North Karanpura Thermal Power Station (Energy Analysis for GRIHA Rating System on eQuest for 4 Buildings- Administration Building, Service Building, Auditorium and Canteen) • Energy modeling was performed on eQuest as per IGBC Green Homes for 11 Residential Towers of Wave Parcel 2B and 2D, Noida • Energy modeling was performed on eQuest as per IGBC Green Homes for 9 Residential Towers of Saakaar Aqua City, Patna • Able to perform following **Commissioning** Tasks: -Developing Commissioning Plan -Developing OPR and BOD -Review OPR and BOD -Developing System Manual and Commissioning Report -Preparing checklists -Submittal Reviews on the basis of specifications, drawings and site photographs -Preparing issues log -Reviewing Trends for HVAC Equipments -Reviewing TAB Reports against equipment schedules • HVAC training to colleagues • eQuest Training to M.Arch students (Amity University, Noida) • Quality Assessment of Energy Simulation for various projects for various Rating Systems • Site visits and Meeting with clients • Report Preparation • ECMs recommendations to client

Aug 2014- Dec 2015	As a project HVAC designer, my work revolved around the following: • HVAC system design for hospitality, residential and commercial buildings • Electrical and BMS work integration with HVAC system • Meeting deadlines and delivering work as scheduled • Calculation of cooling and heating loads • Duct and pipe sizing • Calculation of external static pressure in duct work • Pump head calculations • Staircase, lift well & lift lobby pressurization • Selection of low and high side equipments • Design of ventilation/exhaust system • Preparation of documents like Design Reports, Equipment Schedules, BOQ and Cost Estimate Submittals review • Drawing review • Data point summary and Tender preparation for BMS • Virtual balancing of chilled water system and air side system (on Revit and manually as well) • Knowledge of other services (Electrical, Plumbing & Fire Fighting) • Witness of testing and commissioning of fire and life safety system which includes firefighting (sprinkler & hydrant), lifts, fire pumps, fire detection, fire alarm & voice evacuation system • Energy Modeling • Report Preparation Few of the projects handled are as follows: • Hilton, Al Ahsa, Saudi Arabia (247 Guest Rooms) o Cooling Load- 1050 TR (530 TRx3 Water Cooled Centrifugal Chillers) o Heating Load- 450 kW • Hilton Garden Inn, Al Ahsa, Saudi Arabia (196 Rooms) o Cooling Load- 290 TR (275 TRx2 Water Cooled Screw Chillers) o Heating Load- 93 kW • Holiday Inn Express, Bengaluru (309 Guest Rooms + 50 Hostel Room) o Cooling Load for Hotel Area- 390 TR (200 TRx2 Water Cooled Screw Chillers) o Cooling Load for Hostel Area- 50 TR (VRF System) • Novotel, Panjim, Goa (125 Guest Rooms) o Cooling Load- 320 TR (190 TRx2 Water Cooled Screw Chillers) • Esplanade, Bhubaneshwar (Mall) o Cooling Load- 1016 TR (750 TRx2 Water Cooled Centrifugal Chillers) • ADG New Office, Gurgaon o Cooling Load- 28 TR • 97 Barrow Street, La Guardia, New York, USA (Residential) o Cooling Load- 13 TR (VRF System) o Heating Load- 34 kW • Intercontinental Hotel, Dhaka (238 Guest Rooms) o Cooling Load- 843 TR (430 TRx2 Water Cooled Centrifugal Chillers) • Fairfield Inn, Surat (142 Guest Rooms) o Cooling Load- 324 TR • Metro Mart (Wave Parcel 3L) o Mixed Use Development- Shopping Mall, Office and Residential (Approx. 2100 TR) • Four Point Sheraton, Kochi (243 Guest Rooms) o Cooling Load- 378 TR

	• Energy Modelling for following Projects:
	  ○ Wave One Noida (Value Engineering over AECOM Design)
	  ○ Hilton, Al Ahsa, Saudi Arabia (For Guest Rooms Heating Requirement)
	  ○ Bhubaneshwar Esplanade (For Retail, Food Court & Cinemas)
	  ○ Novotel Hotel, Panjim, Goa (Comparison of different HVAC Systems and Different Uvalues and SHGC for Glass)

Standards Knowledge	• ASHRAE (All 4 ASHRAE Handbooks- Fundamentals, HVAC Applications, Refrigeration, HVAC Systems & Equipments including ASHRAE Standards 55, 62.1 and 90.1) • LEED Green Building Rating System • WELL Green Building Rating System • GRIHA Green Building Rating System • IGBC Green Building Rating System • ECBC • NFPA 33, 92a and 92b • SMACNA (HVAC Duct Construction Standards & HVAC Systems Duct Design) • CIBSE (Guide A, Guide B & Guide E) • BREEAM Green Building Rating System (Brief knowledge) • Green Star Green Building Rating System (Energy related credits)
Softwares Knowledge	• **HAP** (Cooling and Heating Load Calculation) • **IESVE** (Energy Simulation, Daylight Analysis, CFD Analysis & Thermal Comfort Analysis) • eQuest (Energy Simulation) • Climate Consultant (Climate and its effect on performance of building) • Microsoft Office suite including Word, Excel, and Power Point • AutoCAD • RETScreen (For PV and Solar Thermal Collector Design) • Cymap (Cooling and Heating Load Calculation, Ducting & Piping) • Sefaira Architecture (Energy Modelling) • Sefaira System (HVAC Systems Energy Modelling) • ArmWin UK (Insulation thickness calculation) • Ductulator (Duct sizing) • ASHRAE Duct fitting Database (Pressure Drop calculations)

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