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| **Employment Status:**  Employment : Contract  **Software Skills:**  REVIT MEP, REVIT ARCH, AutoCAD, McQuay, HAP, E-20, Toshiba VRV, Conveyor design software & MS Projects.  **Codes and Standards used:**  ASHRAE, ISHRAE, SMACNA, BSRIA CIBSE, NFPA, NBC, OSHA, ANSI and IPC.  **Membership:**  Institute of Engineering and Technology, UK.  **Languages Known:**  English, Hindi, Kannada. | *Carrier objective:*  Seeking a position to utilize my skills and abilities in a **MEP** **based Consultancy /Contracting firm** that offers professional growth while being resourceful, innovative and flexible.  *Brief History:*  **6** years of experience in **HVAC** Design and project execution for Commercial buildings, Residential, Hotel buildings, Office buildings and Industrial buildings (Having **GCC** **experience**).  **5** Years of experience in Design of Conveyor system for Power and Steel plants  *Education & Professional trainings*   * **MS** in Mechanical system design.   Manipal university, Manipal, India.   * **B Eng.** in Mechanical Engineering,   (Visvesvaraya Technological University) Belgaum, India.   * **HVAC** Training (Designing & Drafting),   Taiba Engineering consultant, Bangalore, India.   * **Plumbing & Firefighting** Training (Designing & Drafting),   Taiba Engineering consultant, Bangalore, India.   * **REVIT MEP**.   CADD Centre, Bangalore, India.   * Diploma in **CAD** (AutoCAD, CATIA and Ansys ),   CADD Center, Bangalore, India.  *Professional strengths :*   * Good knowledge on **HVAC**, **Plumbing** and **firefighting**. * Good knowledge on **BMS.** * Good Oral and Verbal communicator. * Developing good customer relationship. * Handled Gulf cooperation council projects. * Good at **BIM** Software like **Revit MEP**. |

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| Shiva IEng.  Sr. HVAC Engineer (Design and Project Execution).  [Shiva.75964@2freemail.com](mailto:Shiva.75964@2freemail.com) | P102520026 |

*Job Responsibility*

**HVAC - Design**

* Preparing Technical specification and Equipment schedule.
* Heat load calculation using HAP and E-20.
* Ventilation calculation.
* Duct sizing using Equal friction, Velocity reduction method.
* ESP (external static pressure) calculation for Fans, AHU’s & FAHU’s.
* Chilled water pipe sizing and routing.
* Pump head calculation.
* Sizing of cooling tower based on outdoor unit capacity and Evaporation loss.
* Good Knowledge on VRV – VRF system, Package unit system and District cooling.
* Cold storage design calculation.
* Stairwell Pressurization calculation.
* Preparation HVAC Design drawing and Shop drawing.
* Preparing BOQ and Cost estimation.

**Plumbing Firefighting - Design**

* Fresh water supply and Drainage system for high rise buildings.
* Underground sump, OHT tanks, pump main sizing and pump selection.
* Septic tanks, soak away pit design.
* Auto pneumatic system, Pressure tank sizing.
* Fountain system, Storm water drain in building, Rain water harvesting and irrigation system.
* Firefighting and fire alarm system design.
* Nozzle selection and pipe sizing.

**REVIT MEP**

* Good knowledge on work sharing, Clash detecting, family creation, 3D and 2D modeling.
* Mechanical design - Zone creation, Heat load analysis, Schedule creation, Air water system, Placing air terminals, Chilled water piping system, adding equipment’s and accessories.
* Plumbing design – Adding plumbing fixtures, creating fresh water piping system and sanitary piping system.
* Electrical design – Adding lighting fixtures, switches, junction boxes, receptacle’s, creating lighting circuits, Creating switch system, balancing wire and creating power loads.
* Planning Fire protection system.
* Extraction REVIT MEP to AutoCAD and detailing.
* Family creation.

**HVAC, Plumbing and Fire protection- Project execution**

* Preparing project execution plan.
* Preparing equipment schedule.
* Preparing technical specification for the mechanical equipment’s.
* Vendor offer evaluation and finalizing the vendor.
* Review of detail/manufacturing drawings.
* Review of Vendor drawings and documents.
* Site visit to support field engineering.
* Preparing submittals for Consultant approval.

*CURRENT EMPLOYER*

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|  | **Trinity Engineering Services LLC, Dubai, UAE.** | | |
|  | **Designation** | : | HVAC Engineer. |
|  | **Period** | : | Since June 16. |
|  | **Major Projects handled** | : | |  |  | | --- | --- | | **Project:** | 3B+G+19 Story, Rove hotels at Marsa, Dubai | | **Client:** | Emaar | | **Consultant:** | Arch group |   **Cooling System: 2X350 TR Water Cooled Screw Chiller.**   * HAP calculation for the revised Architectural layout. * Pump head calculation. * ESP calculation for Fans, FAHU’s and AHU’s. * Duct sizing, chilled water pipe sizing. * Calculations required for HVAC material submittals. * Technical and commercial evaluation of suppliers. * Getting the Material submittal and Drawing approval from the Consultant. * Site Co-ordination for Material procurement and Site supervision.  |  |  | | --- | --- | | **Project:** | B+G+11 Story 4 Star hotel at Palm Jumeirah | | **Client:** | Aloft Hotel | | **Consultant:** | Lacasa |   **Cooling System: 700 TR District Cooling system.**   * HAP calculation for the new additional rooms. * Pump head calculation. * ESP calculation for Fans, FAHU’s and AHU’s. * Duct sizing, chilled water pipe sizing. * Calculations required for HVAC material submittals. * Technical and commercial evaluation of suppliers. * Getting the Material submittal and Drawing approval from the Consultant. |

*PREVIOUS EMPLOYER*

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|  | **Hyder Consulting India Pvt. Ltd. Bangalore, India.** | | |
|  | **Designation** | : | Senior Engineer. |
|  | **Period** | : | Aug – 2013 to June 2016. |
|  | **Major Projects handled** | : | **2013, Jumeirah open beach – Dubai, U.A.E:** analysis of possible cooling options for Zone A of the Jumeirah Open Beach project (Residential, Office and Hotel blds).   * Preparing BOQ and cost estimation for different cooling system. * Explore advantage and disadvantage of Central chiller plant. * Explore advantage and disadvantage of VRV/VRF split system. * Work out capital cost, operational cost, Economic life, installation maintenance and commissioning.   **2014, Ruwais Housing complex expansion – Ruwais, Abu Dhabi:** Providing Duct able DX system for Residential apartments, MCC room, Office room, clean agent room and providing ventilation system for pump house and compressor building.   * Preparing HVAC design report. * Cooling load calculation for MCC room, Office room. * Ventilation and fan sizing calculation for pump house and compressor building. * Firefighting design. * Layout for AC system and ventilation system.   **2015, AL Dhakira – Doha, Qatar:** Design and drafting of firefighting and fire alarm system for Administration building and several pumping stations.   * Preparing BOQ and cost estimation for firefighting system. * Preparing Fire alarm layout and schematic. * Preparing Firefighting layout.   **2015, Jeddah Metro – Jeddah, KSA:** Modelling MEP services to platform buildings (for both Elevated and underground platforms).   * Modeling HVAC ducts for Station buildings. * Modelling Electrical services to the platform buildings. * Modeling Plumbing and firefighting services to station buildings.   **2015, Paddington BLL – London, UK:** Newlink passage (170m) connecting between Cross rail and Bakerloo line platforms at Paddington.   * Cooling system, Ventilation system, Smoke management and Radiant cooling system. * Public health services – Hot and cold water distribution, surface water drainage, foul drainage and flood management system. |
|  | **AEGIS-Essar Engineering service division India PVT LTD. Bangalore, India.** | | |
|  | **Designation** | : | Dy. Manager |
|  | **Period** | : | March – 2012 to Aug-2013 |
|  | **Major Projects handled** | : | **Bostik – Pump house ventilation system – Bangalore, India.**   * Heat load calculation using E-20. * Fan / blower selection. * Hydraulic calculation for Primary and Secondary pump selection. * Kitchen and Toilet exhaust. * Firefighting design. |
|  | **BATEMAN Engineering India PVT LTD. Bangalore, India.** | | |
|  | Designation | : | Engineer - Mechanical. |
|  | Period | : | Oct-2008 – March - 2012 |
|  | Nature of job | : | HVAC and Belt conveyor calculations. |

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|  | **Kelsatek solution Pvt. Ltd., Bangalore, India.** | | |
|  | Designation | : | Graduate Engineer. |
| Period | : | Mar -2006 to Oct-2008 |
| Nature of job | : | HVAC and Belt conveyor calculations. |

*Trainings / Certification:*

1. **HVAC, Plumbing and firefighting (Design and drafting) –** Conducted by TEC MEP, Bangalore, India**.**
2. **Revit MEP -** CADD Centre, Bangalore, India.
3. **Diploma in CAD (AutoCAD, CATIA and Ansys ),** - CADD Center, Bangalore, India.
4. **Power plant familiarization** – Conducted by Power Technology group EESD. HAZIRA.
5. **Business communication Program** – Conducted by Value point academy.
6. **IELTS** – International English Language testing system – IDP Australia.
7. **CAT-4 –** Project management certification conducted by Hyder consulting.
8. **MS project -** Project management software training conducted by Hyder consulting.

*Personal details:*

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| Date of Birth | : | 01 May 1984. |
| Nationality | : | Indian. |
| Marital status | : | Married. |
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I, declare that the information furnished above is true to the best of my knowledge.