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PROFESSIONAL PROFILE: Professionally qualified & experienced **Mechanical HVAC Engineer** with over 8 yrs. experience in USA who consistently uses education, experience and creativity to solve problems pertaining to a wide variety of HVAC design problems. Specialize in construction and design in commercial, educational and residential HVAC and Plumbing design added solutions, drive productivity and works effectively with an employer who offers advancement & initiative.

SUMMARY OF QUALIFICATIONS:

- Extensive experience in **HVAC and Plumbing** design engineering.
- Experience in Commercial, Residential, Retail, Educational and Hospital facilities.
- Coordination of all phases of HVAC projects from design through installation. Including calculating loads, ductwork and pipe sizing, selection of HVAC equipment including Air Handlers, Pumps, Boilers, Chillers, Cooling Towers, FCU and Condensing units.
- Experience in **Carrier (HAP), Trane (Trace 700) and Elite** load calc. and also **AutoCAD and Revit**.
- Familiar **ICC (IBC, IMC, IPC) and UBC (UMC, UPC) and City CODE** compliance.
- In the process of applying for **Professional License Examination (PE)**.

EDUCATION:

Bachelor of Science in Mechanical Engineering, Wichita State University, Wichita, KS

RELEVANT EXPERIENCES

Mechanical Design Engineer (HVAC & Plumbing) Aug 2015 – Present

HVAC DESIGN INT'L (DBA), Houston, TX

(For Brewer-Escalante, Bovay Engineering Int'l) Responsible HVAC design (load calculation, duct and plumbing design and layout) for retail and office building using elite and carrier program and AutoCAD

Multiple Overseas Contracts Tehran, IR

Aug 2011- Aug 2015

(I.I. Consultant, Herampey Consultant Engineers and T.O. Consulting Company)

As field resident inspector's supervisor: Responsible for planning and managing the activity of field resident technical staff for diverse project at the site.

As mechanical engineer : Designed of air distribution system with air handling equipment, Necessary ducting with air terminals and chilled water pipe connections to AHU's/FCU's from terminal points for educational building (11 Story Floor Bldg. University of Tehran) using engineering design tools, such as Carrier (HAP) and AutoCAD.

As mechanical engineer : Was responsible for supervision and review HVAC system, Piping & Plumbing drawings for 128 bed hospital (Dashat Bozork Azadehgan) and also Was responsible for designing for patient room ,administration building, Duct layout and design, and plumbing , site and gas pipe design (kitchen) and also selection of equipment such as chillers, AHU's, FCU's. Pumps, exhaust fans, pumps, valves and other accessories for the project.

Manager – For Clinic Tehran, IR

March 2010- July 2011

Mechanical Design Engineer (HVAC & Piping)

Feb 2008 – March 2010

CCRD Partners, Houston, TX

Was responsible for layout and simulations model of chilled water system for Bush International Airport (IAH), which we were using pipeflow simulation program. I was involved of designing hospital HVAC system (St. Luck's hospital) using Elite and carrier software for load calculation & AutoCAD .

Mechanical HVAC Engineer (HVAC & Plumbing)

Feb 2007 – Feb 2008

HGE Consulting Inc. Houston, TX

Designed for multifamily residential & clubhouse HVAC system, selection of HVAC units and their schedules, plumbing and water piping design. Designed projects ranging in sizes from 20 – 450 dwelling units which were located in Houston and state of Texas. Using Elite software (load calculation) and AutoCAD for all drawings.

Mechanical Engineer (HVAC)

Jan 2006 – Feb 2007

Marmion Industries Corp. Houston, TX

Was responsible for industrials building HVAC design (Offshore) which specializing in explosion proof HVAC and pressurization systems for use in hazardous area with using AutoCAD Program.

Mechanical Designer (HVAC & Plumbing Design)

Aug 2004 – Sept 2009

HVAC DESIGN INT'L (DBA), (For ESDM. Boxx Groups) Houston, TX

Responsible HVAC design (load calculation, duct and plumbing design and layout) for restaurant, office, bank and clinic building such as Leila's restaurant using elite and carrier program and AutoCAD for drawings.

Sales Counselor – Lenexa KS & Houston TX

June 2001- Sept 2004

Mechanical HVAC Engineer

Sept 2000 – May 2001

Henderson Engineers, Inc. Lenexa, KS

Detailed design engineering of HVAC system which involves heating and cooling load calculation, duct route, Drawings, and specifications for commercial building & restaurants using Carrier and Trane (Load Calc) and AutoCAD in different states (KS, Maine, OH, N. Dakota, IL, CA.) Calculated building HVAC requirements and cods compliance to ensure adequate capacity of system.

Mechanical HVAC Engineer

Aug 1994 - May 2000

KSI Company, Inc. Tehran, IR

Was responsible to oversee Mechanical & Electrical maintenance program for 31 Hospitals.

As superintendent of 96 bed hospital was responsible for inspection installation of the HVAC (Heating & Ventilation & Air Conditioning) systems & monitoring project progress according to the drawings, specifications, time schedules and contract doc. supervised the activities of several resident technicians.

Designed HVAC systems for multifamily residential using Carrier (HAP) load calculation and provided detail HVAC drawings, system arrangement with AutoCAD prog. Which help to reducing design time by 20%.

Teaching-Plumbing, AutoCAD drafting and Water supply design for cement factory Sept 1990-June 1994

Mechanical Engineer (HVAC & PIPING)

Jan 1989 - Aug 1990

Fru-Con Engineering, Inc. Ballwin, Mo.

As Mechanical Engineer, was responsible for developing detailed mechanical and piping design

Layouts, drafting, designing of piping and mechanical arrangements as well as process flow diagrams P& FD and also Piping Plans, sections, P & ID's for Clients in industrial & chemical industry.

As HVAC Engineer, designed HVAC systems which involves, heating and cooling load Calculations, duct and pipe routing, drawing & specifications for industrial & commercial building

CERTIFICATIONS AND TRAININGS

Certified training in **REVIT MEP** at Fotrosco, Tehran, IR

Certified training in **PDMS** (Plant Design Manager System) at Novin Parsian, Tehran, IR

Completed training in **Piping Design – ASME & API CODE** at Novin Parsian, Tehran, IR

Certified in **Piping sys. Fundamental & Flow master (Pipe flow design Prog.)** by Engineered software Inc., Houston. TX

Completed training in **AutoCAD** at St. Louis Community College at Forest Park, Missouri

PERSONAL INFORMATION - Citizen of United State of America