

Mohammad A [REDACTED]

- Date of Birth: **September 1988**



About

Excellent in process and mechanical equipment design of water and wastewater treatment and piping designing with a wide range of materials with more than 12 years of career experience, skilled in providing most type of technical documents in this field, Highly proficient in project Engineer.

As a portion of my experience includes design and calculation of Heating, Ventilation and air conditioning (HVAC) for 2 years.

Education

- FEB. 2010 – JUN. 2013
M.Sc. in Mechanical Engineering (Energy Conversion)
University of Dezful
Thesis Title: Numerical and Experimental Study of a Rectangular Jet with a Flat Plate in Different Angels
Thesis Supervisor: *Prof .Alireza Tahavvor* and *Dr.Bahoush*
- Sep. 2006 – Sep. 2010
B.Sc. in Mechanical Engineering (Fluid Mechanics)
University of Shiraz

Journal Paper and Honors

- Alireza Tahavvor, **Mohammad Ali Shafie**, Reza Bahoush, “Numerical and Experimental Study of a Rectangular Jet with a Flat Plate in Different Angels”, journal of national conference on mechanical engineering , (2013).
- Supervisor of three superior designs which are presented at Kazeroon University (2013)

Certificates

- **PDMS** Software (2012)
- **PIPING LAYOUT/MATERIAL** Course (2012)
- **FLUENT & GAMBIT** Software (2011)
- **CARRIER** Software (2010)
- **ANSYS** Software (2008)
- **Grade 3 of supervision in field of mechanical installation** from Tehran Construction Engineering Organization (TCEO) (2017)

Skills

- Working experience with mechanical software: Cadworx, PDMS(design,draft,iso), E3D, Navisworks, CATIA V5, Carrier, AutoCAD Plant 3D, Ansys, AutoCAD 2D & 3D, Revit
- Excellent In piping design and Drawing with Cadworx and E3D and PDMS software
- Excellent In preparing manufacture drawing with Catia and AutoCAD 3d Software
- Experienced in Preparing all type of mechanical and piping specifications
- Excellent In preparing technical tender document of mechanic and piping
- Proficient In provision of Piping document such as WPS, PMS, Design Criteria ,MSD,ISO, MTO,...
- Familiar with civil guide line, PFD, P&IDs, hydraulic profile,I&C and Electrical Document
- Excellent In preparing mechanical data sheet and mechanical technical document Sufficient
- knowledge of type of piping materials and connections
- Experienced in installation of fixed and rotary equipment (UF, PUMP, RO, Vessel,...)
- Sufficient knowledge of piping standard (ASME, DIN) and mechanic (API610, API675)
- Familiar with Management and leadership principles PMBOK and SAP Control System
- Able to monitor and evaluate on-site work as the project progresses
- Proficient In building facilities calculation and design with Carrier software
- Computer proficiency in Microsoft Word, Excel, Power Point and Access

Languages

- Fluent in Farsi
- Intermediate Knowledge of Germany (B2-1) and English

Work experience (12 yrs.)

- **MAPNA Boiler & Equipment Engineering & Manufacturing Co(EPC) ,Since August 2019** Position: Senior Project Engineer of Water and Wastewater Treatment Departemen
Projects: SWRO plant of Bushehr city (35000 m³/d), water and wastewater treatment of Mapna boiler Company factory (60 m³/d), SWRO of Mokran (48000 m³/d) and BWRO Container (804 m³ /d), WWTP Saipa Diesel (75 m³/d),...
- **Tana energy Engineering Company (EPC) , Since May 2021(Part time)**
Position:Piping designer(with cadworx and PDMS) and Mechanical engineering expert of Water Treatment Project(SWRO of Basaeido (6000 m³/d) , SWRO of Kuhestak(6600 m³/d), SWRO of Kish Island(6000 m³/d) and Uzbekistan Project Tender,...
- **Mojan Engineering Company(EPC) , (September 2014- August 2019)**
Position: Head of Mechanical and Piping Department / Project Engineer
Projects:
Sanitary and industrial wastewater treatment plant of Bandar Imam (joint with Kocks company in Germany), water and wastewater treatment of 980 NGL3200 projects, wastewater and water treatment plant of Mall, Lapoeio sanitary wastewater treatment plant, Emamzadeh Davoud wastewater treatment Plant, Algeria 'S wastewater treatment plant, Sanitary wastewater Treatment of Sharyar (joint with P2mBerlin Company in Germany), Azadshahr, Javanrood city, water treatment of Malayer and Liwa in Oman

- Duties:
 - preparing and checking technical offer for tender and preparing technical documents such as data sheets, equipment list, Material take of piping, PMS ,MR, TBE, GA of Equipment, ICW for Equipment and all of documents in mechanical and piping department.
 - ✓ Preparing mechanical data sheets and equipment list for the project
 - ✓ Preparing fabrication drawing using Catia software and Auto cad
 - ✓ Designing plot plan and piping plan
 - ✓ Designing and providing 3D model of piping with Cadworx and Pdms
 - ✓ Preparing mechanical design criteria, mechanical & piping MSD, PMS, NDT & WPS, piping design basics, Piping MTO, Piping Isometric, Support List, Valve list and ...
 - ✓ Checking mechanical and piping purchase documents
 - ✓ Reviewing process and civil documents of mechanics and piping
 - ✓ Preparing mechanical equipment and piping commodity; data bank
 - ✓ Checking fabrication drawings of mechanical equipment
 - ✓ Installation supervising of mechanical equipment
 - ✓ Tracking technical documents and attending meetings with the employer regarding approval of technical documents
 - Conducting HVAC design calculations using carrier
- **Absun Zolal Engineering Co, Desal Niroo Co, Aria Sina Co, Falat Sanat Ideh Co, Hydro Pars CO(Jun 2019 - September 2023) Part Time**
 - Duties:
 - Cooperation in the form of a fixed contract and preparation of all engineering documents for water and waste water treatment plants.
 - * Designing and providing 3D model of piping with Cadworx
 - * Preparing Piping MTO, Piping Isometric, Support List, Valve list and
- **Omid Jam Engineering Company (Jun 2013 - September 2014)**
 - Position: Piping Designer and Mechanical Engineer
 - Projects:Bushehr Terminals and officers
 - Duties:
 - * Designing and providing 3D model of piping with Cadworx and Pdms
 - * Preparing Piping MTO, Piping Isometric, Support List, Valve list and
 - ✓ Conducting HVAC design calculations using carrier and Designing HVAC and preparing design documentations
- **B.A.S (Betun Arshe Siraf) Engineering Company (April 2011- April 2013)**
 - Position: Piping Designer and Mechanical Engineer
 - Projects:Commercial and Residential Building
 - Duties:
 - * Designing and providing 3D model of piping with Cadworx and Pdms
 - * Preparing Piping MTO, Piping Isometric, Support List, Valve list and
 - ✓ Conducting HVAC design calculations using carrier
 - ✓ Designing HVAC and preparing design documentations
- ~~**University of Kazeroon (September 2012- September 2014)**~~
 - Position: University Lecturer
 - 3 Duties:
 - ✓ Teaching fluid mechanic courses

Last updated: August, 2024