

Professional Resume

Name : Ehsan Baheri
Position : Senior Static Equipment Engineer
Year of Birth : 1981
Nationality : Iranian
Status : Married (with one children)
Home Address : Apt. #5, 2th Floor, No. 10, 9th Baharestan alley, Pasdaran st., Tehran, Iran
Function : Mechanical Engineer (Heat & Fluid Mechanics)
Qualification : B.S. degree (2003) from "Iran University of Science & Technology", Tehran

Career Summary

Over 21 years of experience in Engineering and Consultancy covering petrochemical, refinery, and thermal power plants.

Key Aspects

- Extensive experience in selection, specification, design, manufacture, and fabrication of static equipments (e.g. Heat exchanger, Pressure vessel, Column, Reactor, Storage tank, Double wall storage tank, Ejector, Static mixer, Filter, Coalescer, Aircooler, Cold Box, Air Separation Units)
- Thorough knowledge of engineering practices, economic principles, calculation methods and design details of static equipment
- Technical proposal review / clarification for static equipment
- Experience in various phases of Vendor selection, technical negotiation, Vendor document review, TQ and NCR review and resolution
- Experience in engineering and construction work process
- Analyze special designs and troubleshoot

Detailed Professional Experience

**March 2016 – to present: Namvaran Consultant Management & Engineering, Tehran/ Iran
Senior Static Equipment Engineer**

- Lead static equipment engineer for Kermanshah Ammonia and Urea Project (responsible for 112 static equipment), Arman Methanol (responsible for 86 equipment), Sina Methanol Project (responsible for 89 equipment), Nouri Heavy Naphtha Treatment Project (responsible for 44 equipment) and Hormoz Olefin Project (responsible for 96 equipment).
- Schedule control and budget control of the work undertaken, including for detail design, technical proposal evaluation and Vendor documents review
- Control of design information for static equipment engineering exchanged with other disciplines, Vendor and Client
- Change control
- Engaged in several interface management meetings with project / other engineering and procurement department
- Prepare static equipment technical specifications, mechanical data sheets, MR, etc.
- Prepare equipment loading data
- Prepare purchase requisitions
- Analysis / clarification of Vendor's technical quotation
- Vendors' document review including design calculation, detail drawings, fabrication procedures
- Technical support for static equipment fabrication and site erection
- Engaged in Model 3D review
- Engaged in project execution plan preparation and review
- Preparation of lessons learnt recorded during the project
- Preparation and review of hold log sheet with project team
- Participate in several systematic activities (preparing design procedures, freeze documents, technical presentation, training activities)

**January 2015 – March 2016: Namaad Sanat Sadid (Static Equipment Manufacturer), Tehran/
Iran
Marketing & Business Development Manager**

- Prepared more than 45 technical / commercial proposal package to Client
- Collaborate with sourcing / procurement department to get best offers on raw material
- Prepare and adhere to budgets of project
- Expand offerings and company products
- Develop MOU with technology providers and global high-tech partners to position business as innovator and leader
- Plan marketing objectives
- Gather and analyze Client feedbacks
- Engage consumers on social media
- Deepen relationships with all media to ensure the most effective messaging and positioning of the company
- Drive overall direct marketing
- Speaking opportunities with partner and Clients at events

**January 2009 – March 2016: Namaad Sanat Sadid (Static Equipment Manufacturer), Tehran/
Iran
Engineering Manager**

- Implementing and managing all engineering activities carried out in the office in support of proposals and projects
- Develop and maintain project scope of work
- Develop and maintain project schedule
- Facilitate / coordinate the consistent flow of information between disciplines
- Review and process change order deviations
- Maintain engineering consistency and resolve engineering conflicts
- Resource planning and recruiting engineering discipline

- Monitoring, controlling and anticipating issues related to functional performance, technical interfaces and systems operations
- Developing and building Client relations
- Talent development

Managed engineering activities for several projects summarized (partly) in below:

- Storage tanks for Sadaf Petrochemical Company – 24 items (Client: Sadaf Petrochemical Co. and Nargan Consultants & Engineers)
- Towers for Sadaf Petrochemical Company – 6 items (Client: Sadaf Petrochemical Co. and Nargan Consultants & Engineers)
- Towers for Shahid Rasouli Petrochemical Co. – 5 items (Client: Shahid Rasouli Petrochemical Co. and Monenco Iran)
- S&T heat exchanger, columns, reactors and drums for Persian Gulf Star Refinery – 63 items (Client: Faradast Energy Falat)
- Regenerator reactor for Persian Gulf Star Refinery – 3 Items (Client: Euroslotpars)
- Two & three phase separators for NISOC – 15 items (Client: NISOC)
- LD columns for Marjan Methanol Petrochemical – 3 items (Client: Namvaran)
- Unit 108 reactors for SP Gas Field Development Phase 20,21 – 10 items (Client: OIEC)
- HP shell & tube heat exchanger for Isomax Unit – 19 items (Client: Tehran Refinery)
- Fixed roof storage tanks for Bandar Rajaei Vegetable Oil Complex – 6 items
- Rectangular storage tanks for Froozan Offshore platform – 9 items (Client: Nardis)
- Incinerator for Sarcheshmeh Copper Complex Smelting Unit – 1 Item (Client: Sabafam JV.)
- Desalter & degasser for West Karoon Oil Field – 6 items (Client: Petro Techna)
- Sand filters for Abadan Refinery – 6 items (Client: Sadid / Omrab JV)
- Reactors for SP Gas Field Development Phase 13, 22~24 – 20 items (Client: PKSK)
- Indirect oil heater for Lab Sefid Desalting plant – 1 item (Client: Tasdid)
- Fixed roof storage tanks for Lab Sefid Desalting plant – 5 items (Client: Tasdid)
- LDE towers for Zanjan/Lordegan/Golestan Urea & Amminia petrochemical plant – 9 items (Client: Hampa)
- Aux. vessels for Isfahan Refinery – 14 items (Client: Namvaran)
- LD columns for Kaveh Methanol Petrochemical – 5 items (Client: PIDEC)

February 2006 – January 2009: Namvaran Consultant Management & Engineering, Tehran/ Iran Static Equipment Design Engineer

- Lavan Oil Refining Project (Basic & Detail design: Namvaran): Fixed equipment engineer responsible for Shell & Tube heat exchangers, Air-coolers, and Steam ejector
- Kharg Methanol II Plant Project (Basic design: Davy Process Technology, Detail design: Namvaran): Fixed equipment engineer responsible in design, preparing data sheets, specifications, material requisition, technical bid evaluation for fixed and special equipments including Primary steam reformer, Auto-thermal reformer, Boiler package, Flare package, Deaerator, and Air-cooler.
- Semnan Gas Power Plant Expandable to Combined Cycle (Feasibility study: Namvaran): Thermal cycle design engineer responsible for power units configuration & performance parameter selection, cycle optimization and preparing basic calculations for plant utility (Demin & potable water, gas oil and natural gas) requirements.
- Participating in technical proposal preparation for various refinery and petrochemical projects including Isfahan refinery gasoline production project (awarded to Namvaran in 2006), Lavan oil refinery project (awarded to Namvaran in 2007), 12th Olefin project (basic design awarded to Namvaran in 2007), Fanavaran Propylene project (Under progress).

November 2004 - February 2006: Monenco Iran Consulting Engineers, Tehran/ Iran Mechanical Engineer

- 22 Units Combined Cycle Power Plant Project (Feasibility study: Tata Power, Detail design: MAPNA / Monenco): Responsible for reviewing of documents/drawings pertaining to "Heat Recovery Boiler", viz. P&I Diagrams, Equipment layout, Equipment sizing criteria, Thermo-

technical and Hydraulic calculations, General arrangement dwg., Pump sizing criteria, etc. (submitted by the contractors)

- Prepared **Overall Plant Guarantee Performance Test Procedure** of Neka power plant including uniform rules to conduct of test and results evaluation.
- Expert in Thermoflow software package including GTPro, GTMaster, and Thermoflex modules for performing thermal power plant basic design.

**July 2002 - November 2004: Energy Systems Improvement Center, Tehran/ Iran
Mechanical Engineer**

- Investigation of technical solution to improve the heat transfer in **Kermanshah Oil Refinery** Company's heat exchangers of "Unit 100".
- Prepared the software for thermal simulation of **Razi Petrochemical Company's** primary steam reformer.
- Prepared the performance test procedure with the related test stand (according to ASHRAE code) for Ground Source Heat Pumps.
- Laboratory research on the "Indirect Evaporative Compact Heat Exchangers" to utilize in new generation of domestic coolers. Attained to satisfactory thermal and hydraulic performance.

Training:

I) Trainee

- Training on ASME Sec. VIII Div. I in Iranian Society of Mechanical Engineers (ISME) (With certificate).
- Training on HTFS (TASC / ACOL) software package in Iranian Society of Mechanical Engineers (ISME) (With certificate).

II) Instructor

- Instructor for HTFS (TASC) software training course held in Namvaran on thermal design of shell & tube heat exchangers (especially condensation application). (the presentation file is available on request)

Computer Skills:

- Proficient in Microsoft Office, Autocad, PV Elite, NozzlePro, Tank, HTRI, HTFS (TASC / ACOL)

Languages and Degree of proficiency		Speaking	Reading	Writing
	English	Good	Good	Good
	Persian	Good	Good	Good

Publications:

- **Article**
 - I) Thermal modeling of radiation and convection sections of primary reformer of ammonia plant, Applied Thermal Engineering 27 (2007) 627-636.
 - II) Application of Structural Theory for determination of pressure level and pinch point for HRSG design, 8th National Mechanical Engineering Conference, Iran, 2003.