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Maziar Bahiraee

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ABOUT ME

Experienced **Chemical Process Engineer** with over **12 years of expertise** in **process engineering, commissioning, and start-up** for **ABS and rubber production plants** in the petrochemical industry. Proficient in evaluating and refining **process designs** provided by **licensors, basic engineering consultants, and EPC contractors**, ensuring compliance with **engineering codes and project specifications**. Extensive practical experience in **start-up, commissioning, and operational phases**, translating design concepts into fully functional industrial systems. Adept in **process simulation and modeling (Aspen Plus, HTRI)** to validate engineering designs, troubleshoot inefficiencies, and optimize plant performance. In-depth knowledge of **OPERCOM methodology, process safety protocols, and plant optimization strategies**, allowing for seamless transitions from design to operation while mitigating risks and improving efficiency.a description of yourself here...

WORK EXPERIENCE

1 NOV 2024 – CURRENT Istanbul, Türkiye

COMMISSIONING & START-UP SUPERVISOR SPG-STEINER

Kuzey Marmara Underground Gas Storage Expansion (Phase III) Project

- Reviewed DCS logic software with Silica Gel Unit Logic and C&E (SAT).
- Prepare and develop filling procedure and supervised internal installations, packing loading, and top distributor nozzle installation for Adsorber Bed Vessel Inspection in Silica Gel Unit.
- Pre-Commissioning & Functional Tests, Witnessed conformity checks, static tests, and system preservation activities for the Gas Processing Unit.
- Fired Heater BMS logic Software Review with Vendor documents.
- Prepared and develop commissioning and start-up procedures for DFGH dry-out steps.

Business or Sector Electricity, gas, steam and air conditioning supply | **Department** Commissioning and Start-Up

1 JAN 2023 – CURRENT

COMMISSIONING & START-UP MANAGER PADJAM POLYMER DEVELOPMENT COMPANY

Oversaw **tender preparation, contractor selection, and bid evaluation**, ensuring alignment with project (**ABS/ Rubber production project** €320 million) scope and WBS. Supervised **HSE compliance**, commissioning schedules, and **pre-commissioning activities**, including **static tests, system preservation, and punch list management**. Led **execution oversight**, tracking **PRC, FT, and OT progress** via **ICAPS**, while managing **system integration, MRT, and SECE readiness**. Directed **start-up coordination, documentation approval, and final performance validation**, ensuring smooth handover. Provided **team leadership, productivity enhancement, and performance evaluations**, maintaining a professional and safe work environment.

Business or Sector Manufacturing | **Department** Commissioning Department | **Email** M.Bahiraee@PJPC.ir

1 JUL 2017 – 1 JAN 2023

PROCESS ENGINEERING DEPT. HEAD PADJAM POLYMER DEVELOPMENT CO.

Led a team of **five process engineers**, overseeing **process design reviews** for the **ABS/Rubber production project** (€320 million) and ensuring alignment between **licensors, consultants, and EPC contractors**. Reviewed **800+ MDR & VDR documents**, conducted **technical feasibility studies**, and optimized designs, achieving **€3 million in cost savings**. Played a key role in **contractor claims management**, successfully defending **$55 million in claims**. Supervised **HAZOP studies, 3D model reviews, and process control software development**, ensuring **DCS and SIS**

integration. Participated in **FAT for critical control systems**, validated plant safety measures, and facilitated smooth project execution.

Business or Sector Manufacturing | **Department** Engineering Department | **Email** M.Bahiraee@PJPC.ir

ADVISOR TO CHIEF EXECUTIVE OFFICER AND ENGINEERING MANAGER SADAF PETROCHEMICAL COMPANY

Advised the **CEO and Engineering Manager** on key **engineering challenges**, overseeing **50+ major engineering documents** and **5 technical contracts**. Supervised **EPCC contractors**, managed claims, and ensured project alignment with client objectives.

Business or Sector Manufacturing | **Department** Engineering Department

1 APR 2019 – 1 DEC 2019

ADVISOR TO CHIEF EXECUTIVE OFFICER AND ENGINEERING MANAGER FANAVARAN PETROCHEMICAL CO.

Offered expert guidance in engineering, project planning, and risk management for large-scale petrochemical operations. Facilitated conflict resolution with contractors, safeguarding project progress and budgets.

Business or Sector Manufacturing | **Department** CEO

1 FEB 2016 – 1 FEB 2017

PROCESS ENGINEERING DEPT. HEAD TAKHT-E-JAMSHID PETROCHEMICAL COMPANY

Led a **team of seven process engineers**, overseeing **process modifications, control strategies, and production planning** at **TJPC (**SBR & PBR Projects of €120 million). Managed **15+ major process improvements**, increasing throughput by **5%**, and optimized **chemical procurement**, reducing costs by **1%**. Developed **structured log sheets** and trained **30+ operators**, improving **data-driven decision-making and process stability**. Spearheaded **cost reduction initiatives**, cutting **reactive power losses by 2%**, refining cost allocation by **6%**, and reducing downtime by **15%** through advanced **engineering training**.

Business or Sector Manufacturing | **Department** Engineering and Technical Service

1 JUL 2014 – 1 FEB 2016

PRODUCTION PLANNING & PROCESS CONTROL LEAD TAKHT-E-JAMSHID PETROCHEMICAL COMPANY

Led **production planning and process control** at **TJPC** (SBR & PBR Projects of €120 million), optimizing **feedstock management, chemical usage, and plant efficiency**. Conducted **root cause analysis** to resolve inefficiencies, tracked **utility consumption**, and implemented corrective actions. Prepared **detailed reports** on inventory, production, and sales, ensuring accurate forecasting. Reduced **electricity costs by 2%** through **power factor optimization**, achieving an **8-month ROI**, and developed a **cost prediction system**, improving financial planning accuracy.

Business or Sector Manufacturing | **Department** Engineering and Technical Service

1 APR 2014 – 1 JUL 2014

SBR AND UTILITY PLANTS OPERATION HEAD TAKHT-E-JAMSHID PETROCHEMICAL COMPANY

Led **24/7 operations** of **SBR and utility plants** at **TJPC** (SBR & PBR Projects of €120 million), overseeing **30+ operators** and ensuring compliance with **safety and operational standards**. Maintained **99.5% equipment uptime**, reducing **shutdown incidents by 30%** in four months. Conducted **root cause analysis for 15+ incidents**, implementing corrective actions with the **technical service team**. Optimized **water, steam, and power consumption**, lowering **utility costs** and ensuring **uninterrupted supply to polymerization units**.

Business or Sector Manufacturing | **Department** Plant Operation

1 MAR 2013 – 1 APR 2014

JUNIOR COMMISSIONING ENGINEER TAKHT-E-JAMSHID PETROCHEMICAL COMPANY

Completed **7 months of intensive training** in **Synthetic Rubber Plant operations** and actively participated in **pre-commissioning, commissioning, and start-up** using **TOTAL's OPERCOM methodology**. Conducted **process conformity checks, operational tests, and PSSR reviews**, ensuring system readiness and compliance with standards. Worked with **cross-functional teams** to resolve commissioning challenges and ensure **seamless system integration**.

Business or Sector Manufacturing | **Department** Commissioning

1 APR 2012 – 30 MAY 2012

OLEFIN PLANT OPERATOR APPRENTICE JAM PETROCHEMICAL COMPANY

Studied **process descriptions, PFDs, P&IDs, and operating manuals** to understand **Olefin plant operations**. Observed **startup, shutdown, and equipment changeover** sequences while monitoring **operational data** to identify discrepancies. Assisted in **troubleshooting issues** like fouling and leaks and prepared a **detailed apprenticeship report** with findings and improvement recommendations.

1 JUN 2012 – 1 JUL 2013

PROJECT SITE SUPERVISOR RAHSAZ OUJE PARS

· Supervision of the Civil Works of the Artificial Lake Project in a Recreational and Amusement Park
· Preparing 3 contracts for subcontractors
· Coordinate the Financial payment and Insurance affairs of 20 workers
. Follow up on five invoices until their payment is received from the client

EDUCATION AND TRAINING

1 FEB 2019 – FEB 2019

SOME COLLEGE (NO DEGREE): PMBOK 6TH EDITION TRAINING COURSE Ariana

Level in EQF EQF level 2

1 APR 2015 – 30 APR 2015

SOME COLLEGE (NO DEGREE): HONEYWELL EXPERION PKS 50 TRAINING Honeywell Representative

Level in EQF EQF level 3

1 JAN 2008 – 1 JAN 2012

BACHELOR OF SCIENCE: CHEMICAL ENGINEERING- PETROCHEMICAL INDUSTRIES Azad University

Level in EQF EQF level 4

1 JUN 2007 – 1 AUG 2009

ASSOCIATE OF ARTS: FRENCH LANGUAGE PROFICIENCY ILI

Level in EQF EQF level 1

1 NOV 2005 – 1 AUG 2009

ASSOCIATE OF ARTS: ENGLISH LANGUAGE PROFICIENCY (FULL COURSE) ILI

Level in EQF EQF level 4

LANGUAGE SKILLS

Mother tongue(s): **PERSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	C1	B2
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Aspen Plus | Microsoft Office | Process Simulation | Autocad | Photoshop

COMMUNICATION AND INTERPERSONAL SKILLS

A list of Communication and interpersonal skills

Technical Report Writing, Engineering Document Review & Feedback, Presentation & Public Speaking, Contract Negotiation & Claims Handling, Multi-Disciplinary Coordination, Decision-Making Under Pressure, Conflict Resolution & Problem-Solving, Cultural Adaptability & Multinational Experience, Negotiation & Vendor Management

HOBBIES AND INTERESTS

Hobbies and interests

Problem-Solving & Strategy Games, Watching Documentary Films & Movies, Hiking & Outdoor Exploration, playing video games