

CV

Sakine Moradi

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Kamkar BLVD, QOM, IRAN

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WORK EXPERIENCE:

Sarvco Company, Tehran (*Manufacturer of Catalysts*)

2021 - present

Senior Chemical Engineer

- Analysis of physical and chemical properties of various catalysts and absorbents.
- Development and production of catalyst with different process applications from lab scale to pilot scale.
- Developing knowhow technology for manufacturing catalysts in lab scales.
- Selection of highest performed catalysts when tested and analyzed under the same operational condition.
- Model prototypes in AutoCAD.
- Test products in development for function and safety.

Green Tech Company, Kabul (IOM Beneficiary)

May 2020 - May 2021

Chemical Engineer

Producer of Ethanol & Conduct waste water project in Afghanistan

- functional and detailed design of municipal infrastructure related to water supply, treatment, sewers, roads, land development site servicing, storm water management and waste management.
- infrastructure conceptual design, preliminary design, detailed design, technical memorandums, design reports, plans, approvals, contract administration, and site inspections for civil and water/wastewater projects.

- Perform assessments, design calculations, hydraulic reviews, data collection, and data analysis to support engineering activities.
- Participate in the creation of contract drawings, contract specifications, and tender packages
- Because ethanol plants typically operate 24/7, be available in case of a breakdown or emergency
- Work closely with the plant manager and general manager to maximize efficiencies of plant operations
- Look for ways to optimize plant run time but mechanically and with personnel

Arian Polyurethane JSC, Tehran

QC

Jan 2017 - Dec 2019

- Design, plan layout, and assist customer engaged in constructing, controlling, and improving equipment to carry out ethanol processes on industrial scale.
- Analyze operating procedures and equipment and machinery function to reduce processing time and cost.
- Design processes to control movement and storage of solids, liquids, and gases.
- Provide timely and high-quality data reports that document test results
- Test products for long-term stability or stability under various conditions.

Kavir Kashan Cement Company

Oct 2014 - Nov 2016

Promoted from Intern to Assistant Chemical Engineer

- Investigated properties and functions of chemical compounds.
- Proposed plan to start a line of outdoor recreation products, leading the company to access a new market, boosting 10% of revenues.
- Evaluate technical specifications and costs relating to product or process design objectives.
- Analyze product failure data and laboratory test results to troubleshoot issues with cement blends.
- Clean up chemical spills and other contaminants and remove other hazardous materials.
- Recommended and implemented sustainable manufacturing processes for products, improving durability by 35%.

Kavir Kashan Cement Company

Feb 2014 - Sep 2014

Intern

- Develop multiple approaches to a solution, deploy them in an A/B test to our customers, learn and adapt from the results
- Analyze, develop and recommend metrics to drive business decisions
- Collaborate with project manager, developers, and business units to develop products & services.

EDUCATION

**VALI ASR Technical & Vocational College, TEHRAN,
BA Degree**

2014

- **chemical Industries Technology Engineering**

Publication:

Sakine Moradi., Mehrdad Farhadian., (2022), Application of Bi₂WO₆/N-TiO₂ catalyst immobilized on FTO in a tray photoreactor for textile color degradation from aqueous solutions: Effects of mineral salts., Journal of Molecular Liquids, MOLLIQ-D-22-03702R1

Skills:

- *Aspen Hysys*
- *Aspen Plus*
- *Matlab*
- *CHEMCAD*
- *Solid work*

References:

1. Gholam Reza Vaezi, Program coordinator, ARSCO Organization, Kabul
Gholamreza.vaezi@arsco-af.com
2. Dr. Asadullah Movahedi, deputy manager of Afghan Trust Company
info@afghantrust.af
3. Mojtaba Halimi, Head of civil Engineering Department of Avicenna University, Kabul
m-halimi@avicenna.edu.af