



Dr. Faraz Rasheed Mir

Date of birth: 01/09/2008 | **Nationality:** German | **Gender:** Male | **Phone number:**
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Address: Neom city , Tabuk Region, Sharma Neom, Saudi Arabia (Home)

● ABOUT ME

● WORK EXPERIENCE

11/07/2023 – CURRENT Neom, Sharma Tabuk, Saudi Arabia

FLEXIBILITY SOLUTIONS LEAD ENOWA NEOM

Unlock energy flexibility within the industrial customer process.
Supporting ENOWA CDP team for desalination, Brine processing and green H₂ Production Projects.
Supporting advance activities in Oxagon.
Reviewing different processes and advising for the process flexibility solutions to reduce the energy demand.
Recommendations for new processes.
Developing new process models.
Working in close Collaboration of KAUST and FBSU universities.
Writing new Research Papers.

01/09/2018 – CURRENT Bremerhaven, Germany

HEAD OF PROCESS DEPARTMENT TECHNOLOGIE TRANSFER ZENTRUM

- Leading a experts team working in the field of carbon capture and utilization, green hydrogen, membrane treatment, simulation and design.
- Manage technical process and resolve technical issues.
- Testing developed techlogies on an industrial scale such as "Recovery and reuse of Co₂ from exhaust gas.
- Demonstrated ability to work with and support cross - functional project teams.
- Developing new ideas for research projects.
- Handling multiple projects.
- Coordination with industries to provide solutions for various problems.
- Writing national and international project proposals.
- Cost estimation and budget preparation.
- Supervising masters and bachleors students.

02/05/2012 – 31/08/2018 Bremrerhaven, Germany

PROJECT MANAGER TECHNOLOGIE TRANSFER ZENTRUM

Technical Skills: Mainly i was involved in developing environmental protection technologies such as wastewater treatment systems, desalination process, (Membrane bioreactor, Membrane distillation), Co₂ recovery and reuse and biogas production techniques.

Chemistry skills: Solution preparation, titrations, extractions, filtrations, separations, simple and fractional distillation, solubility tests, determination of index of refraction, freezing point depression, simple syntheses and good understanding of thin-layer Chromatography, liquid chromatography, gas chromatography.

Project Management:

- Good conflict management and prioritization skills.
- Can understand and document project requirements and dependencies.
- Excellent documentation & report writing skills.
- Ability to manage multiple projects simultaneously and under pressure.
- Strong attention to detail and focus on task completion.
- Internal and external project coordination and management
- Managing internal and external project audits
- Conducting different training in Asian and African countries.
- Arranging seminars and workshops in different countries

01/11/2010 – 30/04/2012 Bremerhaven, Germany

RESEARCH ASSISTANT TECHNOLOGIE TRANSFER ZENTRUM

- Setup of the lab-scale processing plants and scale-up.
- Laboratory testing for different process improvements
- Responsible for collection and analysis of evaluative project data.
- Responsible for writing draft reports containing descriptive, analytical and evaluative content, coordinating research activities.
- Working closely with the partners in the project

26/09/2007 – 01/09/2008 Karachi, Pakistan

TRAINEE PROCESS ENGINEER PAKISTAN OIL REFINERY

- Monitoring and evaluating the performance of various process equipment's.
- Energy and material balance of units.
- Daily plant monitoring and data logging.
- Generate both (daily and monthly) based performance assessment fact sheets.
- Technically & economically, evaluations of project study reports and selection of process equipment's.
- Suggest new modifications for process improvement.
- To check the behavior of instrumentation and advise for their recalibration.

08/09/2008 – 11/11/2009 Rawalpindi, Pakistan

TRAINEE PROCESS ENGINEER PAKISTAN OIL FIELD LIMITED

- Production planning: Preparation, implementation & follow up based on requirement and available
- CO-ordination: To co-ordination among Marketing, purchase, quality control to ensure timely delivery of products.
- Material Balance & losses control: Monitor losses control in respect of material (raw / packaging / finished products) by preparing yield report.
- HSE Training: Provide training to the staff on safety, firefighting, waste management on monthly basis.
- Vigilance and thorough checking of finished products to ensure its quality/standard up to mark.
- Monitoring the plant performance and coordination with maintenance for necessary maintenance activity.
- Well head operation: Supervising different jobs on well.

● **EDUCATION AND TRAINING**

30/09/2016 – 26/10/2022 Germany

POST DOCTORAL STUDIES (PHD) Technical Univeristy Freiberg

Thesis Development of an energy efficient process for the treatment and reuse of produced water in oil and gas operations

04/10/2009 – 30/04/2012 Germany

MASTER (M.SC.) IN PROCESS ENGINEERING AND ENERGY TECHNOLOGY Univeristy of applied Sciences Bremerhaven

Thesis Waste Water Treatment and Re-use in Beverage Industries by Using Membrane Bio Reactor

15/03/2003 – 20/07/2007 Pakistan

BACHELOR (BE.) IN CHEMICAL ENGINEERING Mehran University Of Engineering and Technology

Thesis Automotive Brake Fluid (Formulation, Blending and Testing)

15/01/2005 – 30/12/2005 Pakistan

CERTIFICATION IN PETROLEUM TECHNOLOGY karachi Univeristy

20/01/2014 – 24/01/2014

ANSYS SIMULATION CFX (ONE WEEK BASIC COURSE) Ansys

● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C1 | C1 | C1 | C1 | C1 |
| GERMAN | B2 | B2 | B2 | B2 | B2 |

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

● **DIGITAL SKILLS**

MS Office (MS Word MS Powerpoint MS Excel MS) | Aspen HYSYS & Aspen Plus

● **PUBLICATIONS**

2022

Recovery and purification of Carbon Dioxide from exhaust gases (F.rasheed Mir, N.NKhan, , G.Schories)

ACHEMA 2022

2024

Demand flexibility in hydrogen production by incorporating electrical and physical parameters

[Demand flexibility in hydrogen production by incorporating electrical and physical parameters - ScienceDirect](#)

Mohd Asim Aftaba,*, Vipin Chandra Pandeya,, S. Gokul Krishnana, Faraz Mir,

2021

Wine dealcolisation using membrane distillation (F.rasheed Mir, G.Schories)

Jahrestreffen der ProcessNet-Fachgruppen Extraktion und Membrantechnik, Feb 2021

2020

Feasibility Study of Combining the Stirling Cycle With the Solar Calcium-looping Integration for Thermochemical Energy Storage (M.Eusha, F.rasheed Mir, G.Schories)

ProcessNet Jahrestagung und 34. DECHEMA Jahrestagung der Biotechnologen, September 2020.

2020

Biogenic synthesis of a green tea stabilized PPy/SWCNT/CdS nanocomposite and its substantial nanoscale advances (Yashfeen Khan, Anees Ahmad, Nafees Ahmad, Faraz Rasheed Mir and Gerhard Schories)

Royal society of chemistry, Feb 2020

2018

Investigation in to Comparative Performance of Membrane Distillation in Food and Beverage industry Applications (S.Hritz, F.rasheed Mir, G.Schories)

17th Aachener Membran kolloquium, 14.-15.11.2018, Aachen

2018

Development of an Energy Efficient Process for the Treatment and Reuse of Produce Water in Oil and Gas operations (F.rasheed Mir, M.Amro, G.Schories, M. Szabries)

17th Aachener Membran kolloquium, 14.-15.11.2018, Aachen

2024

[OPTIMIZED ENERGY USE & DEMAND FLEXIBILITY IN SEAWATER DESALINATION PROCESS](#)

FARAZ RASHEED MIR, EMEKA CHUKWUREH, SHEHAB A. ELSAYED

- **DRIVING LICENCE**

Driving Licence: B

- **HOBBIES AND INTERESTS**

Main Interests

-Travelling, Reading, Cricket