

FAISAL IQBAL

Sheikhupura, PAKISTAN +92-313-4713195 faisaliqbal942@gmail.com

CAREER SUMMARY

Versatile, enterprising, dynamic, enthusiastic graduate Chemical Engineer with 10 months of rich experience in power and utilities especially in coal fired power plant. Comprehensive engineering knowledge and skills on all aspects of process design, process equipment design, process integration and optimization with expertise in process simulation software and proven competencies enabling production of high quality cost-effective deliverables meeting client requirements.



CAREER OBJECTIVE

Proactive result driven professional seeking a challenging position in a Process Engineering firm to utilize qualifications and ten months of process engineering experience and deliver outstanding results by ensuring proper flow of project activities across all stages of the project.

Areas of Interest: Process Design, Process Equipment Design, Process Economics, Process Optimization, Process Integration, Process Control, Process Plant Safety (particularly HAZOP analysis), Reactor Design, Project feasibility studies, Energy Optimization, Cost estimation studies, Material and Energy balance calculations, utilities.

SKILLS

- Chemical Engineering, Process Engineering, Process Design
- Engineering Design – Conceptual Design, Detailed Design
- Energy Optimization, Pinch Technology
- Design Deliverables, Modeling, Simulations, Design Optimization
- Creation of Excel calculation sheets for solving complex process engineering problems
- MS Office – Proficient
- Aspen Plus, ChemSep, AutoCAD, MATLAB – Working knowledge
- Communication, Coordination, Problem Solving, Decision Making, Planning, Execution

PROFESSIONAL EXPERIENCE

Trainee Engineer Operations, October, 2017 to March 2018, Nishat chunian 46MW coal fired power plant, Pakistan

Company Profile:

- The 46MW coal fired power plant is a project of Nishat Chunian electric company limited. The plant operates efficiently meeting all the environmental standards of Pakistan <http://www.nishat.net/>

Projects:

- Designing and installation of a pipeline and pump for condensate transfer
- Shut down of boiler and turbine
- Resin regeneration of Mixed bed ion exchanger
- Supervised a valve leakage attendance job on a hot condensate pipeline
- Designed a shell and tube heat exchanger for condensate cooling

Key Responsibilities:

- Perform hydraulic studies of process equipment and piping including Induced draft cooling tower, Boilers, Reverse osmosis plant etc.
- Execute engineering calculations related to line hydraulics, pump hydraulics etc.
- Independently create Excel spreadsheets to evaluate critical parameters of pumps and heat exchangers as per project requirements.
- Attend HAZOP review meetings to identify process hazards and implement effective corrective action plan ensuring process safety.
- Mentored a junior internee during his 3-week internship with the company
- Monitor the working of each plant unit including Water treatment section, Cooling tower, Bolier, Turbine

INTERNSHIPS

- **June 2015 (4 Weeks):** Process Engineer, Nimir industrial chemicals limited Sheikhupura, Pakisatn – Independently prepared and submitted a technical report to senior production manager on each unit of plant

FAISAL IQBAL

Sheikhupura, PAKISTAN +92-313-4713195 faisaliqbal942@gmail.com

ACADEMIC PROJECTS

Design Project – BE Final Year, September 2015 – November 2016:

- Production of 53MTPD of Para-Xylene by Toluene methylation

Modules:

- Market Feasibility Studies– Conducted literature survey on demand-supply scenario for raw materials and products, defined ideal plant location and supply chain management and performed profitability analysis
- PFD Development– Modeled, simulated and optimized the flowsheet using Aspen HYSYS V8.6; generated and solved optimization problems to select the right equipment combination – pump vs. compressor, flash vessel vs. distillation column vs. extraction column vs. absorption column vs. stripping column; developed mass and energy balance specifications for individual streams and equipment in the flowsheet.
- Detailed Process Equipment Design– Developed detailed designs for reactor, distillation column and storage tank along with pump selection and line sizing.
- P&ID Development– Developed piping and instrumentation diagram (P&ID) for the distillation column and defined the corresponding control philosophy.
- Cost Estimation– Determined capital costs of reactor, distillation column, storage tank, pump and piping.
- HAZOP Analysis– Conducted HAZOP analysis of a storage tank, reactor, heat exchanger.

Study Project, February 2015 – May 2015:

- Fabrication of induced draft cooling tower.

EDUCATION

Sharif college of Engineering and Technology (SCET) Lahore, Pakistan

Bachelor of Engineering (Honors) – Chemical Engineering (2012 -2016); CGPA: 3.493/4.0

Punjab College of Science, Lahore, Pakistan

F. Sc (pre-engineering) (Standard 12), Board of Intermediate and Secondary Education Lahore (BISE) Pakistan, 76%

Government High School, Nawankot, Pakistan

Matriculation (Science) (Standard 10), Board of Intermediate and Secondary Education Lahore (BISE) Pakistan, 73%

PROFESSIONAL DEVELOPMENT

TRAINING:

- **August25 - 2015:**Human Factor in Project Management–One day workshop course (University of Engineering and Technology Lahore, Pakistan)
- **March 28 - 2016:**PhotoVotlic Cells– One day workshop course (University of Engineering and Technology Lahore, Pakistan)

PERSONAL INFORMATION

Nationality: Pakistani~ **Date of Birth:** 17 May 1992 ~ **Marital Status:** Single
Languages: Fluent in English, Punjabi and Urdu ~**Hobbies and Interests:** Badminton, Basketball, Swimming ~
Extracurricular Record: 3rd position holder in Project exhibition, 3rd position holder in Scholarship exams at school level.

References: Available on request