Arjun Mehta

Chemical Process Designer

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SUMMARY

Chemical process designer with 5 years at Houston engineering firms, producing process flow diagrams (PFDs), P&IDs and heat and material balances for gas processing and chemical projects. Works in Aspen HYSYS, AutoCAD Plant 3D and SmartPlant P&ID, and handles equipment sizing to client and API standards.

EXPERIENCE

Chemical Process Designer 04/2023 - Present

Westpark Process Design Group Houston, TX

EPC design office of 300 staff serving midstream and chemical clients.

- Develop PFDs and heat and material balances in Aspen HYSYS for **4** gas plant and fractionation projects.
- Produce 200+ P&ID sheets in SmartPlant P&ID and resolve 1,500 review comments with clients and piping.
- Specify separators, pumps and relief valves to API 520 and API 521, documenting each in a calculation package.
- Generate equipment data sheets and line lists that feed procurement for $60M in long-lead equipment.

Process Design Engineer 06/2021 - 03/2023

Gulfgate Engineering Services Pasadena, TX

Small engineering firm handling revamps at Houston Ship Channel plants.

- Drafted **120** P&IDs and PFDs in AutoCAD Plant 3D from field walkdowns of existing units.
- Calculated line sizes and pressure drops in Microsoft Excel for 14 revamp scopes.
- Checked vendor drawings against data sheets and returned marked comments within 5 working days.
- Recorded 3 HAZOP sessions as scribe and closed 85 action items in the design documents.

Process Engineering Co-op 05/2020 - 08/2020

Channelview Olefin Partners Channelview, TX

Summer co-op with the technical services group of a propylene plant.

- Verified **35** P&ID sheets against field piping and logged every mismatch for the drafting team.
- Calculated pressure drop across 6 cooling water circuits to support a pump replacement study.
- Updated equipment data sheets for 40 heat exchangers in the plant document system.

SKILLS

- **Process Flow Diagrams**
- **P&IDs**
- **Heat and Material Balances**
- **Aspen HYSYS**
- **AutoCAD Plant 3D**
- **SmartPlant P&ID**
- **Equipment Sizing**
- **API 520**
- **Microsoft Excel**
- **HAZOP**

EDUCATION

Bachelor of Science

University of Houston

Chemical Engineering

Houston, TX

05/2021

CERTIFICATES

Engineer in Training (EIT)

Texas Board of Professional Engineers and Land Surveyors

08/2021