



ADITYA MEHTA

Chemical Engineer

mass balances, process simulation, PFDs

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FICTIONAL SAMPLE - all employers, qualifications and outcomes are illustrative and unverified.

EXECUTIVE SUMMARY

Chemical Engineer with an illustrative 12-year career in industrial design, technical analysis and engineering delivery. Combines mass balances, process simulation, pfd's with disciplined documentation, practical coordination and clear communication. The sample career progresses from focused execution to independent workstream ownership, with responsibilities and boundaries described for each appointment.

Selected work includes heat recovery study, batch consistency improvement and process documentation update. These examples explain the original problem, individual contribution, deliverables, review approach and remaining limitations rather than relying on unsupported headline claims.

Prepared for experienced chemical engineer opportunities requiring dependable delivery, thoughtful professional judgement and collaboration. The qualification narrative includes M.Tech in Process Engineering. Every named organisation and outcome in this record is fictional; professional eligibility is not independently established.

AT A GLANCE

12 years

ILLUSTRATIVE CAREER

4

CAREER APPOINTMENTS

3

WORK EXAMPLES

2

EDUCATION RECORDS

CORE COMPETENCIES

mass balances / process simulation
PFDs / P&IDs
process safety review / utilities
trial planning / technical reporting

PROFESSIONAL MISSION

Turn a clear brief into dependable industrial design, technical analysis and engineering delivery work: understand the context, apply mass balances and process simulation, record the evidence and explain the limitations before handover.

Career family: Core Engineering | Snapshot: 2026-09-22

PROFESSIONAL EXPERIENCE / RECENT

Chemical Engineer

Meridian Engineering Design (fictional)

Jul 2023 - Present | Lucknow, India

Independent ownership of scoped chemical engineer work, coordinating contributors and making review requirements explicit. Includes the first two selected work examples.

- Modelled material and energy balances and reviewed recovery options.
- Mapped operating variables and designed controlled trial records.
- Led brief clarification and prioritised work using mass balances, process simulation and pfd. Raised unresolved constraints before committing to the next stage.
- Coordinated peer reviews and handover preparation; used a design calculation and assumption register to distinguish completed work, assumptions and follow-up needs.
- Supported colleagues with practical examples of p&ids and maintained a concise learning record after important assignments.

Illustrative career responsibilities. Employer confirmation and underlying work records are not supplied.

Senior Chemical Engineer

Northline Engineering Design (fictional)

Jul 2019 - Jun 2023 | Lucknow, India

Owned defined assignments and supported cross-functional coordination. Developed deeper practice in pfd and p&ids.

- Reconciled drawings and compiled change-review documentation.
- Translated incoming requirements into a sequenced plan and aligned responsibilities with the project or service owner.
- Applied process safety review and utilities to resolve delivery questions while maintaining source and decision notes.
- Introduced reusable working documents and reviewed exceptions with the responsible specialist rather than silently changing scope.
- Prepared a inspection or commissioning record so the next team could understand the work and remaining questions.

Illustrative career responsibilities. Employer confirmation and underlying work records are not supplied.

PROFESSIONAL WORKING PRINCIPLES

- Translate operating requirements into bounded calculations, drawings and acceptance criteria.
- Review design assumptions with responsible specialists before fabrication or site implementation.
- Control drawing revisions and record inspection, commissioning and handover evidence.

PROFESSIONAL EXPERIENCE / EARLIER

Chemical Engineer

Cedarbridge Engineering Design (fictional)

Jul 2016 - Jun 2019 | Lucknow, India

Progressed from supported tasks to independently managed assignments, with review available for unfamiliar or higher-risk decisions.

- Handled recurring work involving mass balances and process simulation using a documented preparation and review process.
- Supported batch consistency improvement by organising inputs, maintaining issue notes and incorporating reviewer feedback.
- Coordinated colleagues and internal stakeholders using concise status updates, clear questions and agreed next steps.
- Improved record consistency through trial planning and documented handover expectations.

Illustrative career responsibilities. Employer confirmation and underlying work records are not supplied.

Assistant Chemical Engineer

Cedarbridge Engineering Design (fictional)

Jul 2014 - Jun 2016 | Lucknow, India

Built practical foundations through supervised assignments, routine documentation and feedback from experienced colleagues.

- Assisted with mass balances and pfd's within an agreed scope and escalated unfamiliar work.
- Prepared inputs and checked completeness before passing work to the responsible reviewer.
- Maintained task records and learned to communicate assumptions, constraints and observed problems clearly.
- Applied review feedback to subsequent assignments and developed a dependable working routine.

Illustrative career responsibilities. Employer confirmation and underlying work records are not supplied.

SELECTED CONTRIBUTIONS

Heat recovery study. Modelled material and energy balances and reviewed recovery options. The achievement is the described workstream contribution; independent outcome evidence is not supplied.

Batch consistency improvement. Mapped operating variables and designed controlled trial records. The achievement is the described workstream contribution; independent outcome evidence is not supplied.

Process documentation update. Reconciled drawings and compiled change-review documentation. The achievement is the described workstream contribution; independent outcome evidence is not supplied.

SELECTED WORK / 01

Heat recovery study

P1 | Jan 2024 - Jun 2024 | FICTIONAL WORK EXAMPLE

Context. Fictional internal work programme in industrial design, technical analysis and engineering delivery; not a real client case study.

Problem. Process energy losses were not quantified.

Objective. Create a workable response to this issue through mass balances, explicit review criteria and practical documentation. Agree the boundaries before execution and retain unresolved points for follow-up.

Contribution and ownership. Chemical Engineer; owned the stated workstream, not the full organisation or every collaborator contribution.

- Modelled material and energy balances and reviewed recovery options.
- Prepared the scope with the commissioning team, identified unresolved inputs and used mass balances to turn the brief into a sequenced work package.
- Applied process simulation and pfd's while coordinating reviews with the designated owner. Kept decision notes so collaborators could separate facts, assumptions and changes.
- Assembled the handover material, explained open limitations and agreed which items needed further review rather than presenting them as completed.

Methods. mass balances / process simulation / PFDs / P&IDs

Deliverables. Heat recovery study - scoped brief; Heat recovery study - reviewed working package; Heat recovery study - handover and learning summary

Review. Reviewed the scoped output against the agreed brief, recorded exceptions and checked that key conclusions could be traced to observations. The review package calls for a design calculation and assumption register and a named human reviewer.

Illustrative outcome: the team adopted a repeatable approach for heat recovery study, with clearer ownership and reviewable records. This is a fictional qualitative result; no real performance measurement or external acceptance evidence is supplied.

Suggested evidence (not supplied): design calculation and assumption register; reviewed drawing package; inspection or commissioning record.

SPECIALIST PRACTICE

Engineering authority

The sample focuses on mass balances, process simulation, pfd's. Approvals, supervision and specialist input are identified in each work package; work outside this scope is referred to the designated responsible person.

Peer learning and practical guidance. Created short examples on mass balances and p&ids for colleagues. Separated personal preferences from agreed team procedures and recorded useful questions.

Review and handover discipline. Facilitated practical reviews of batch consistency improvement, ensuring that unresolved issues retained a named owner rather than disappearing from final presentations.

All designs are fictional work examples; approval authority, site permits and professional registrations are not established.

SELECTED WORK / 02 AND 03

Batch consistency improvement

P2 | Jan 2025 - Jun 2025 | Meridian Engineering Design (fictional)

Problem. Variation occurred between nominally identical batches.

Objective. Create a workable response to this issue through process simulation, explicit review criteria and practical documentation. Agree the boundaries before execution and retain unresolved points for follow-up.

Ownership. Chemical Engineer; owned the stated workstream, not the full organisation or every collaborator contribution.

- Mapped operating variables and designed controlled trial records.
- Prepared the scope with the commissioning team, identified unresolved inputs and used pfd's to turn the brief into a sequenced work package.
- Applied p&ids and process safety review while coordinating reviews with the designated owner. Kept decision notes so collaborators could separate facts, assumptions and changes.
- Assembled the handover material, explained open limitations and agreed which items needed further review rather than presenting them as completed.

Methods. process simulation / PFDs / P&IDs / process safety review

Delivered. Batch consistency improvement - scoped brief; Batch consistency improvement - reviewed working package; Batch consistency improvement - handover and learning summary

Illustrative outcome: the team adopted a repeatable approach for batch consistency improvement, with clearer ownership and reviewable records. This is a fictional qualitative result; no real performance measurement or external acceptance evidence is supplied.

Suggested evidence (not supplied): design calculation and assumption register; reviewed drawing package; inspection or commissioning record.

Process documentation update

P3 | Jan 2020 - Jun 2020 | Northline Engineering Design (fictional)

Problem. Operating diagrams did not reflect approved changes.

Objective. Create a workable response to this issue through pfd's, explicit review criteria and practical documentation. Agree the boundaries before execution and retain unresolved points for follow-up.

Ownership. Chemical Engineer; owned the stated workstream, not the full organisation or every collaborator contribution.

- Reconciled drawings and compiled change-review documentation.
- Prepared the scope with the commissioning team, identified unresolved inputs and used process safety review to turn the brief into a sequenced work package.
- Applied utilities and trial planning while coordinating reviews with the designated owner. Kept decision notes so collaborators could separate facts, assumptions and changes.
- Assembled the handover material, explained open limitations and agreed which items needed further review rather than presenting them as completed.

Methods. PFDs / P&IDs / process safety review / utilities

Delivered. Process documentation update - scoped brief; Process documentation update - reviewed working package; Process documentation update - handover and learning summary

Illustrative outcome: the team adopted a repeatable approach for process documentation update, with clearer ownership and reviewable records. This is a fictional qualitative result; no real performance measurement or external acceptance evidence is supplied.

Suggested evidence (not supplied): design calculation and assumption register; reviewed drawing package; inspection or commissioning record.

EDUCATION AND SPECIALIST LEARNING

M.Tech in Process Engineering

Asterbridge Institute of Professional Studies (fictional institution)
Jul 2012 - May 2014 | completed - fictional record
Focus: mass balances, process simulation, P&IDs. Specialist study on heat recovery study; an illustrative learning project, not a published result.

B.E. in Chemical Engineering

Cedarhaven College of Applied Studies (fictional institution)
Jul 2008 - May 2012 | completed - fictional record
Focus: PFDs, process safety review, utilities. Applied coursework in mass balances, documentation and reviewed practical assignments.

CONTINUING PROFESSIONAL DEVELOPMENT

Engineering design review workshop (2023). Mass balances and p&ids in the context of chemical engineer work. Used reflective exercises and a bounded practice example related to heat recovery study.

Technical documentation practicum (2024). Process simulation and process safety review in the context of chemical engineer work. Used reflective exercises and a bounded practice example related to batch consistency improvement.

Failure analysis case study (2025). Pfd and utilities in the context of chemical engineer work. Used reflective exercises and a bounded practice example related to process documentation update.

Provider for these illustrative learning records: Meridian Professional Learning Studio (fictional). Not a licence or certification.

LANGUAGES AND WORKING PREFERENCES

English and Hindi - professional working proficiency in this fictional record.

Work arrangement: hybrid; remote feasibility discussed per role. Relocation: open to discussion - sample preference. Availability: not confirmed; discuss before an interview.

CREDENTIAL AND EVIDENCE STATUS

All designs are fictional work examples; approval authority, site permits and professional registrations are not established.

Synthetic qualification and institution names illustrate profile fields only; they are not a validated qualification route or recognised accreditation claim.

No real referee, endorsement, award, publication, membership or licence is supplied.

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Complete machine-readable data: profile.json. Interactive companion: portfolio.html. Reference CV used for structure only; this is not Ajay Prajapat's biography.