

# Sarthak Jain

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🏠 The Hague, Netherlands

## SUMMARY

Energy-sector specialist with 8+ years' experience in steering high-risk capital projects across oil, gas and renewable value chains. Engineered infrastructure from concept to hand-over and scaled digital controls that sharpened owner oversight, overall adding multi-million € capex savings. Energised by untangling multi-party challenges; now seeking accountability for end-to-end value creation in multi-skilled capacity.

## EDUCATION

**Imperial College** 2024 — 2025  
Management Development Prog. (Exec-Ed.)

**IIT Kharagpur** 2012 — 2017  
B.Tech. & M.Tech. Civil & Structural Eng.  
Micro specialization – Systems Reliability  
GPA: 9.04/10.00 (Class Rank 1)

## ACHIEVEMENTS

- Shell CEO Goal Zero award for AI safety enhancement T-Pulse, 2025
- Technical Authority Civil Projects, 2024
- 4 Shell Recognition Awards, 2019–24
- Dutch Safety Diploma (VCA), 2023
- Shell India Annual Business Challenge winner with 'Mobile LNG' idea, 2018
- Institute Silver Medal & Best Master's Thesis, IIT Kharagpur, 2017
- Research scholarship: concrete crack prediction, UNSW Australia, 2015

## SKILLS

|                  |   |
|------------------|---|
| <b>Business</b>  | Strategic problem solving<br>Decision quality (DQ)<br>Digital transformation<br>Value stream mapping<br>Budgeting & cashflow model            |
| <b>People</b>    | Stakeholder management<br>Contract oversight & control<br>Change leadership & agility   |
| <b>Technical</b> | Infra design, build & service<br>Construction site execution<br>Systems integration<br>Risk modelling & mitigation<br>Coding (Python, R, VBA) |
| <b>Language</b>  | English (fluent), Dutch (basic), Hindi (native)   |

## EXPERIENCE

### Hydrogen Project (HH1) Civil Lead

Shell

Jan 2023 – Present

Rotterdam, Netherlands

Responsible for design & execution of infrastructure (blast protection; power grid; H<sub>2</sub>-export; HVAC; sustainable scope) on €1bn+ flagship 200MW green H<sub>2</sub> plant

- Saved **20% cost (€15M+)** & improved project IRR by **mission-critical redesign-in-a-day** of control building & architectural simplification.
- Saved **€2M+** cost by driving **6 multi-disciplinary design refinements**.
- Built & commissioned **380kV substation** infra connected to Dutch grid.
- Avoided **25% environmental cost** by leading circular & sustainable program to use recycled concrete, green steel, timber & water recycling.
- Led LTI free 120k man hours by work-planning "**safety in design**".
- Led **100% compliance** with EU regulatory, quality & industry norms by pre-working **build sequence & preparation** of 80+ design packages.
- Improved self-managed construction strategy by **proactive multi-party interfacing** among contracted partners evading siloed & layered teams.
- Led assurance of **1800+ deliverables** against project details & industry norms using limited resources through a risk-based prioritisation plan.
- Managed **contract value of €500k+** as company authority; supported cost control & claims for **major construction contract (€75M+)**.

### Digital Innovation SME Capital Projects

Shell

June 2019 – Dec 2022

Bangalore, India

Responsible for program management & capital allocation to innovate, mature & deploy value-adding market offered digital solutions in Capital Project delivery

- Created a **stage-gated innovation funnel** to govern proposals from **40+ global partners** (EPC ecosystem, academia, startups, user community).
- Managed €300k to test **6 pilots & scale up 2 global digital** solutions.
- Innovated award-winning AI-driven drone-based **construction safety** dashboard with a startup: TPulse; **setup EFA** contract to scale globally.
- Enabled replication of remote progress monitoring tools in **90+ sites** by structuring **deployment** process with value-stream mapping & demos.
- Setup digital platform with workflows for replicating **subsea tie-backs**.
- Defined **digital capabilities plan** for wind, gas, & chemical projects, to enhance construction & startup, enable digital twin & easy replication.
- Designed **learning modules** for digital upskilling of the community.

### Civil & Structural Engineer

Shell

July 2017 – May 2019

Bangalore, India

Responsible for pre-investment development activities in gas projects, operating assets' integrity & functional improvements in tools & standards

- Defined **tender specifications**, installation strategy for €150M+ SURF scope, field layout plan, diver-less hookup, TRL de-risking of flexible riser & dual-diameter pig for gas tie-in to Prelude (Crux, Australia).
- Developed **layout master plans & feasibility assessments** for offshore (Manatee, T&T), onshore (Sakhalin; BSP, Brunei) gas projects.
- Avoided **€20M+ cost** for operating assets by **risk assessment & advanced adequacy checks** of ageing storage & logistics infrastructure.
- Consolidated 14 internal design practices into 1 using **network graph visualization** & benchmarking against industry guidance & standards.