

Sarthak Jain

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in sarthakjain93

🏠 The Hague, Netherlands

SUMMARY

Energy leader with 8+ years' experience from concept to execution of Shell's Capital Projects. Engineered & built critical high-risk energy infrastructure to move electrons & molecules from production to transport. Tested & scaled digital technologies for amplifying control of owner's teams on construction & engineering. Energised by owning & resolving complex challenges. 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 Engg.
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
- Institute Silver Medal & Best Master's Thesis, IIT Kharagpur, 2017
- Recycled concrete strength prediction model publication, Springer, 2016
- Research scholarship: concrete crack prediction, UNSW Australia, 2015

SKILLS

Technical	Infra project design & build Construction site execution Systems integration Risk modelling & mitigation Digital twin development Coding (Python, R, VBA)
Business	Strategic problem solving Decision quality (DQ) Stakeholder management Contract oversight & control Budgeting & estimation
Language	English (fluent), Dutch (basic), Hindi (native)
Interests	DE&I reverse mentor Reading, cooking & blog

EXPERIENCE

Hydrogen Project (HH1) Civil Lead

Shell

Jan 2023 – Present

Rotterdam, Netherlands

Responsible for design & execution of civil scope (blast resilient structures; power transmission; pressurised export) on bn\$ flagship 200 MW green hydrogen plant

- Assured **1800+ project deliverables** (design specifications, calculations, procedures, drawings, estimates) as per industry & EN standards.
- Led LTI free 120k man hours by work-planning **"safety in design"**.
- Led **work preparation & on-site execution sequencing** of 80+ design packages; coordinated regulatory permits, quality & safety compliance.
- Enabled self-led construction by **proactive interfacing** with EP & CM contractors for joint reviews, technical clarifications & decision-making.
- Delivered **Shell's first 380kV substation** infrastructure to Dutch grid.
- Led **mission-critical redesign** of control building, architectural simplification **saving 20% cost (\$15M+)** enhancing project economics.
- Managed **contract value of \$500k+** as company authority; supported cost control & claims for **major construction contract (\$75M+)**.
- Led **6 multi-disciplinary value-based project optimisations** under DQ for technical assurance, cost-schedule impact & execution feasibility.
- Rationalised circular construction plan saving **25% environmental cost** using recycled concrete, XCarb steel, timber & water recycling.

Digital Innovation SME Capital Projects

Shell

June 2019 – Jan 2023

Bangalore, India

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

- Created a **funnel innovation process** generating 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 proposition & demos.
- Setup digital platform with workflows for developing **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 – June 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.
- Delivered **\$20M+ cost-saving risk assessment** to sites using **advanced analysis** for asset integrity, structural adequacy, and insulation design.
- Consolidated 14 internal design practices into 1 using **network graph visualization** & benchmarking against industry guidance & standards.