

Sarthak Jain

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in sarthakjain93

🏠 The Hague, Netherlands

SUMMARY

A driven & diligent results-oriented energy infrastructure professional with 7+ years' experience from concept to execution & proven track record of high impact value addition using engineered solutions in Shell Capital Projects. Eager to learn & solve challenging problems towards a sustainable net-zero future.

SKILLS

Technical	Engineering design Project delivery Systems thinking Digital innovation
Business	Stakeholder management Contract management Decision quality (DQ)
Coding	R, VBA, Python, HTML
Software	CAE, CAD, MS Office
Language	English (fluent), Dutch (A2 learning), Hindi (native)

EDUCATION

Imperial College 2024-Jun 2025
Management Development Program

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

ACHIEVEMENTS

- Accredited TA3 Civil Projects, 2024
- 4 Shell Recognition Awards, 2019-24
- Dutch Safety Diploma (VCA), 2023
- Shell India Annual Business Challenge 1st prize with 'Mobile LNG', 2017
- Institute Silver Medal & Best Master's Thesis, IIT Kharagpur, 2017
- GE Edison Finalist easing traffic, 2016
- Statistical model paper, Springer, 2016
- Research scholarship: modelling crack prediction, UNSW Australia, 2015
- Analytics based strategy for increasing hospice search, IIT Kharagpur, 2014
- Led student F1-prototype project, 2014

INTERESTS

- DE&I reverse mentor for senior leaders
- Shell APAC network committee team
- Hobbies: cooking, reading & blogging

EXPERIENCE

Hydrogen Project (HH1) Facilities Lead

Shell

Jan 2023 – Present

The Hague, Netherlands

Responsible for design & execution of civil, structural & architectural scope on billion \$ flagship 200 MW green hydrogen facility - Holland Hydrogen 1

- Led **6 MoC based multi-disciplinary project decisions** under DQ for technical assurance, cost-schedule impact & execution feasibility.
- Defined **8 technical specifications** as per project & industry guidelines.
- Ensured LTI free 120k man hours by work-planning "**safety in design**".
- Assured **1800+ project deliverables** (drawings, calculations, procedures, material estimates) as per specifications & EN standards.
- Led **mission-critical redesign** of control building, architectural simplification **saving 20% cost (\$15M+)** enhancing project economics.
- Led **work preparation & on-site execution sequencing** of 80+ design packages; coordinated regulatory permits, quality & safety compliance.
- Managed **contract value of \$500k+** as company authority; supported cost control & claims for **major construction contract** (\$75M+).
- Enhanced predictability by **proactive interfacing** between designer & constructor for joint reviews, technical clarifications & decision-making.
- 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 to innovate, mature & deploy value-adding digital solutions in construction & engineering of multibillion \$ Capital Projects

- 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.