

Sarthak Jain

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in sarthakjain93

🏠 The Hague, Netherlands

SUMMARY

A diligent, multi-skilled & outcome-oriented project delivery professional with 7+ years' experience & demonstrated track record in concept development, engineering design & construction of energy infrastructure.

SKILLS

Technical	Project delivery Engineering design Finite element analysis Digital innovation
Business	Stakeholder management Contract management Systems thinking
Coding	R, VBA, Python, HTML
Software	CAD, CAE, MS Office
Language	English (fluent), Hindi (native), Dutch (basic)

EDUCATION

Imperial College **2024-Present**
Management Development Program

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

ACHIEVEMENTS

- Shell Recognition Awards in 2024, 2023 & 2019; Performance Shares in 2021
- Shell India Annual Business Challenge 1st prize winner in 2017
- Institute Silver Medal & Best Master's Thesis, IIT Kharagpur in 2017
- Statistical model paper - Springer, 2016
- Research scholarship, University of New South Wales Australia in 2015

CERTIFICATIONS

- Shell Technical Authority Civil Projects
- VOL-VCA Diploma 2023-33
- NL B Driving License 2023-33

OTHER INVOLVEMENTS

- DE&I reverse mentor for senior leaders
- Shell APAC network committee team
- Led student F1-prototype project 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 flagship billion \$ 200 MW green hydrogen facility - Holland Hydrogen 1

- Developed & qualified **6 multi-disciplinary project decisions** for technical assurance, cost & schedule impact & execution feasibility.
- Defined **8 technical specifications** as per project & industry guidelines
- Ensured **safety in design** by constructability inputs to work planning.
- Assured **1800+ engineering design deliverables** (drawings, procedures, material estimates) as per specifications & EN standards.
- Led **mission-critical redesign** of control building, architectural simplification **saving 20% cost (\$15M+)** avoiding schedule impact.
- Led **work preparation & on-site execution sequencing** of 80+ design packages; also managed building permits, quality & safety compliance.
- Managed **contracts worth \$500k+** as contract holder, also supporting cost control & claims for **major construction contract (\$75M+)**.
- Mitigated planning & execution challenges with self-managed construction by **proactive interfacing** between designer & constructor.
- Reduced **environmental cost** by 25 % through **circular construction**, using recycled concrete, XCarb steel, timber & water recycling.

Digital Innovation SME

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** engaging **40+ global partners** (EPC ecosystem, academia, startups, user sites) resulting in 50+ ideas.
- Delivered **6 pilots & 2 global deployments** of digital solutions (robotics, machine vision, remote monitoring, digital twin, automation).
- Innovated AI-driven **construction safety** dashboard with a startup to **provide insights from drone imagery**, leading to global replication.
- Enabled replication of site visualization tools (result: **10+ uptakes**) by **self-help deployment** process using demos, cost models, prerequisites.
- Mapped engineering information workflows to define digital solutions.
- Defined **deployment strategy** for wind, gas, & chemical projects, to enable visualization, advanced work packaging & digital twin.
- Designed **digital upskilling modules** for engineering 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** for subsea tie-in, **technology de-risking** plan, TRL definition of flexible riser for gas project (Crux, Australia).
- Developed **layout master plans & feasibility assessments** for offshore (Manatee, T&T), onshore (Sakhalin; BSP, Brunei) & subsea (Crux) sites.
- Delivered **\$20M+ cost-saving advice** to operating sites using **advanced analysis** for asset integrity, structural adequacy, and insulation design.
- Streamlined 14 internal engineering standards into 1 using **network graph visualization** & further benchmarking against industry practice.