

A diligent, multi-skilled & outcome-oriented project management professional with demonstrated track record in fast-paced environments for concept maturation, engineering design & construction execution of energy infrastructure

Key skills: project delivery, engineering, digitalization, contracting, stakeholder management, systems thinking, bi-lingual in English & Hindi, learning Dutch

PROFESSIONAL EXPERIENCE

Hydrogen Project Facilites Lead	Shell Global Solutions	The Hague, Netherlands	Jan 2023 – Present
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Responsible for MM€ civil, structural & architectural scope on flagship 200 MW green hydrogen facility - Holland Hydrogen 1

- Managed **assurance** of detailed design & execution via **1800+ deliverables** per project requirements & prevailing standards
- Co-developed project specific **technical specifications** with contractor for coatings, concrete, steel, site finishing, drainage
- Ensured **safety in design** through 3D model reviews, 4D work planning to assess constructability & minimise SIMOPS
- Developed technical notes **qualifying decisions** on design optimisations, such as choice of timber, coatings, building ventilation
- Created basis for **mission-critical redesign** of central control room & architectural features **saving 20% cost** ; awarded SRA
- Implemented **circular construction practices** using recycled concrete, XCarb steel, water recycle, timber saving **25% MKI**
- Led **work preparation** with contractors to **self-manage construction** resolving execution challenges with design & planning
- Accountable as **contract holder** for 3 delivery scopes of total **CAPEX 500k€+** ; supported contract team with quantity survey, deviation-based variation requests, unit rates; coordination with local government bodies for **construction permitting** process

Capital Projects Digitalisation SME	Shell Projects & Technology	Bangalore, India	June 2019 – Jan 2023
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Responsible for program management to innovate, mature & deploy value-adding digital solutions for construction & engineering

- Created a **funnel innovation management process** to engage with **40+ global partners** (vendors, academia, & EPC ecosystem)
- Converged **6 pilots & 2 global deployments** using market offered digital solutions to **improve efficiency** in Capital Projects
- Innovated construction safety dashboard to **create insight for site team using AI** on drone imagery; led to global replication
- Led **global deployment(6 sites)** by setting up process for site visualization tools using self-help demos, cost & requirements
- Created digital delivery framework collating best practices; defined 3 business specific **digital delivery plans** (offshore wind, gas, chemicals projects) enabling site visualisation, advanced work packaging & progressive **engineering information** maturation
- Designed **digital upskilling** for engineers defining **learning modules** on 4D & 5D construction, drones, robotics & digital twin

Civil & Structural Engineer	Shell Projects & Technology	Bangalore India	July 2017 – June 2019
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Responsible for pre-FID development activities in gas projects, operating assets integrity & functional improvements in tools & standards

- Led **front-end project activities** viz. contract technical specifications, key decision note, technology maturation plan and development release for an Australian offshore gas development (Crux) through **multi-disciplinary coordination** ; awarded SRA
- Developed **key site plan & feasibility assessment** for offshore gas platform (Manatee in T&T) & onshore gas backfill (to Sakhalin)
- Delivered **MM€ cost avoiding technical advice** to operating assets using **advanced analysis** such as adequacy checks & qualification of existing jetty for additional loads, flare structure after extreme storm, tank integrity after earthquakes & fires, anchor points for lifeline use; soil liquefaction assessment; piping thermal insulation design verification tool; concrete degradation guide
- Drove **consolidation of 14** existing internal **standards to 1** by visualizing complexity using **network graph of inter-referencing**
- Consolidated **competitive review** of industry practices, international codes & extensively **improved 1 engineering standard**

EDUCATION & CERTIFICATIONS

Indian Institute of Technology Kharagpur, India	July 2012 – May 2017	GPA 9.04 on 10 (100 th %ile)
Bachelors (Hons.) in Civil Engineering and Masters in Structural Engineering; Micro specialisation in Engineering Systems Reliability		

- Awarded **Institute Silver Medal** in 2017 & **Swapan Gupta Memorial Scholarship** twice by IIT Kharagpur for 1st dept. rank
- Awarded **Best Thesis** Project for Master’s Thesis & **Springer publication** from Bachelor’s Thesis
- Research exchange scholar** at University of New South Wales, Australia in 2015 for reinforcement free modular slabs
- Pursuing Executive Education **Management Development Program** from Imperial College Business School (2024-2025)

OTHER INVOLVEMENTS

Reverse mentoring senior business leaders on DE&I; APAC in Shell Netherlands **network committee member** ; 1st prize winner in Shell India Annual Business Challenge 2017 with ‘**Mobile LNG**’ idea; runner-up in **Shell.ai awards** with machine vision project; At university, **GE Edison Challenge** finalist with novel gamification-based traffic decongestion idea; led student team to facilitate global student exchange program for their **professional development** ; led student team to manage design & execution of Formula 1 prototype project; In my leisure, I like to travel, cook & build.