

Sarthak Jain

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A diligent, detail oriented & tech-savvy civil & structural engineer with proven problem-solving track record among Shell Projects & Assets. Always looking to learn, adapt and apply my skills & perspective in a fast-paced delivery space.

PROFESSIONAL EXPERIENCE

Digital Solutions Engineer	Shell Projects & Technology Bangalore	India	June 2019 – Present
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Responsible to bring value in construction & engineering through innovation, maturation & deployment of digital solutions

- Led program to **improve construction site safety** by web service that **processes drone imagery** through artificial intelligence; **managed** the project end to end **with vendor and site team** from ideation, testing & **global replication** onto Shell Projects
- Led definition of engineering workflows for a cloud-based data platform to fast track concept development maturation of **Deep-Water subsea tie back portfolio projects**, consolidating **multi-disciplinary inputs** & provided these as vendor requirements
- Initiated & managed engagement with **40+** global digital innovation partners (vendors, academia, & ecosystem), for **deploying market ready solutions** through structured innovation process in Shell Projects; setup global tool to collaborate on new ideas
- Awarded Performance Share Plan for outstanding delivery; offered to **maximum 10% staff globally**

Civil & Structural Engineer	Shell Projects & Technology Bangalore	India	July 2017 – June 2019
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Engineering support to early phase gas projects, assets & functional improvements in tools & standards

- Delivered **front-end scope** including contract technical specifications, key decision note, technology maturation plan & development release for a multibillion \$ offshore Australian gas project by **multi-disciplinary** efforts; received **Shell Award in 2019**
- Supported early phase **site selection & site master plan development** for new gas facilities (East Asian backfill projects)
- Provided engineering support to Asian gas assets for fit-for-service assessments through holistic civil & geotechnical studies
- Developed design tool based on industry standard, supplier & project data for piping thermal **insulation** promising **5% savings**
- Developed neural graph showing complexity in existing standards inter-referencing; received appreciation by **the CEO**
- Consolidated **competitive review** against industry practice, international codes & comprehensively **improved 2 standards**

Practicum Exchange	University of New South Wales	Australia	May 2015 – July 2015
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Research contribution for de-constructible steel-braced concrete slabs intended for reinforcement free modular construction

System Lead	TeamKART - Formula 1 Prototyping	India	Apr 2014 – Apr 2015
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Responsible for leading junior student team in detailed designing, management of cost & schedule and manufacturing of vehicle dynamics system for university-students run Formula 1 prototype (FSAE) project (endorsed by IMechE)

EDUCATION

Indian Institute of Technology Kharagpur, India July 2012 – May 2017 GPA 9.04 on 10

Bachelors (Hons.) in Civil Engineering and Masters in Structural Engineering; micro specialization 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
- Interned as a field trainee with **Delhi Metro Corporation, New Delhi** for exposure to construction site & project management

OTHER INVOLVEMENTS

Participated with 1st prize winning idea at Shell India **Annual Business Challenge 2017**; volunteered in the safety team for **Shell Eco-Marathon Singapore 2018**; published articles on novel technology & engineering applications in **Shell TechXplorer**; led **strategic integration work stream** to unify digital maturation opportunities & highlight synergy gaps for Shell Technology hub
At university, **GE Edison Challenge finalist** with novel gamification-based traffic decongestion idea; supported Indian cancer patients' **hospice care web portal** development; led student team to facilitate professional development & **training of students** through global exchange program; mentored younger graduates for professional & academic development

SKILLS & INTERESTS

Technical Project management, digital project delivery, civil engineering

Non-Technical Stakeholder management, systems thinking, collaboration, communication

Interests Travel, automobiles, cooking, and technology