

# Sarthak Jain

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A diligent, detail-oriented & tech-savvy civil engineer with experience in construction digitalisation and project & engineering management. Looking to strategise deployment of digital transformation in conventional processes.

## PROFESSIONAL EXPERIENCE

Digital Solutions Engineer	Shell Projects & Technology Bangalore	India	June 2019 – Present
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*Innovation, maturation & deployment of value adding market offered digital capabilities in multibillion \$ construction & engineering*

- Initiated & managed engagement with **40+** global digital innovation partners (vendors, academia, & ecosystem), for maturing ideas by **structured funnel process** into deployable solutions; setup global collaboration tool to **democratise new ideas**
- Enabled the construction safety team to remotely manage site observations **90% faster** by using artificial intelligence on drone imagery; **led** the project from ideation to deployment by partnering **with the vendor & site team** followed by **global replication**
- Partnered with engineering experts to define digital up-skilling strategy & framework for **1000+** engineering professionals
- Consolidated multi-disciplinary inputs into **complex engineering workflows** as vendor requirements for a **cloud-based data platform** to fast track development of **offshore subsea energy infrastructure projects**
- 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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*Design maturation, project tendering, fit-for-service assessments & functional improvements for new & existing energy infrastructure*

- Matured **functional design** including tendering specifications, implementation strategy, technology development & adoption plans for a **multibillion \$** offshore Australian gas project by **multi-disciplinary** efforts; received **Shell Award in 2019**
- Saved **15mIn\$** for gas facility in avoiding shutdown by qualifying use of flare system through fit-for-purpose assessment
- Enabled **5% savings** in piping thermal insulation by integrating industry standards, supplier & project data through design tool
- Enabled **focused improvement** of 20+ engineering standards by showing complexity in specifications through **neural graphs**
- Improved 2 internal standards through **competitive & comprehensive review** of industry practices & international codes

Practicum Exchange	University of New South Wales	Australia	May 2015 – July 2015
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*Established numerical & analytical models to validate lab experiments for modular composite steel-concrete slabs with 90% correlation*

System Lead	TeamKART - Formula 1 Prototyping	India	Apr 2014 – Apr 2015
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*Responsible for leading 5+ junior student member team in detailed designing, management of 10k\$ budget & 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 specialisation in Engineering Systems Reliability*

- Awarded **Institute Silver Medal** in 2017 & **Swapan Gupta Memorial Scholarship** twice by IIT Kharagpur for 1<sup>st</sup> 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 1<sup>st</sup> prize winning idea at Shell India **Annual Business Challenge 2017**; led **strategic integration work stream** to unify digital maturation opportunities & highlight synergy gaps across multiple business lines in 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 a 4-student team** to facilitate professional development & **training of students** through **global exchange program**; **mentored** 3 younger graduates towards their 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