

Swetal Shah | Principal Engineer

(Suite 5, 1 Railway Street+61 0413 789 639 sshah@spance.com.au)

Qualifications

BE(Civil)

ME (Struct) (Distinction)

Diploma in Business Management

CPEng NER RPEQ APEC Engineer IntPE (Aus)

Affiliations

Chartered Professional Engineer (Structural) (CPEng)

National Engineering Register (Structural) (NER)

Registered Professional Engineer of Queensland (Structural) (RPEQ)

Principle Design Practitioner Registration NSW (PDP0000919)

Professional Engineer Victoria (PE0000076)

Member of Master Builder Association Australia (MBA)



Career Overview

Swetal has completed Master of Engineering Degree from University of Technology Sydney with Distinction in 2003. Prior to completing master's degree, he has completed Bachelor of Engineering Degree in Civil and Diploma in Business Management from Sydney Australia.

Swetal has total 23 years with 21 years of local experience in Sydney, ranging from 100K to multi-million-dollar projects within public and private sectors. His involvement in the project from start to finish enabled him to understand the design and on-site buildability and simplifying the construction process. This experience helped him to deliver cutting edge solutions whilst achieving architectural intent within budget and time.

Early in his career, he worked five years on-site as Project Manager for multistoried projects and worked as Government approved contractor for Public Works Department helped him to gain on site construction experience which has reinforced his engineering design expertise.

In the past, Swetal has been associated as senior structural engineering consultant with AECOM, Meinhardt, Henry & Hymas, K.F. Williams, Bonacci Group, Sinclair Knight Merz (now Jacobs), Bonacci Rickard etc...

Swetal is fluent with following engineering software: RAPT, Stand7, RAM Concept, RAM Struct System, Etabs, Microstran, Spacegass, AutoCAD.

Swetal is currently providing structural engineering consulting services for Span Consulting Engineers Pty Ltd. Span Consulting Engineers Pty Ltd (SpanCE) is providing structural engineering design and certification for Residential, Commercial and Industrial projects. SpanCE's current clients ranging from Architects, Builders, private clients to government bodies. For example, various councils, Department of Education, Sydney water, Suez, etc.

In recent years, Swetal has been involved in multiple place of worship projects where he has developed understanding on the various ritual requirements for the temple and importance of developing solutions to accommodate them and making sure the structural designs comply with local Australian Standards. Swetal has developed structural system where there is no use of ferrous material or steel reinforcements for such projects.

Project experience

- ❖ **Wastewater Treatment Plant (Lithgow Council):** Structural engineering design, documentation, inspection and certification of Wastewater Treatment Plant at Lithgow Council.
- ❖ **Satake Australia:** Structural engineering complete solution provided for Mayden Feedlot, Pinegrove feedlot, Tender design for GrainCorp project.
- ❖ **Community Building and Hindu Temple - Girraween, Sydney (Vitraag Jain Shwetamber Sangh Sydney Inc.) (10M):** Complete structural design of Traditional Stone – Masonry Temple Structure without using any steel elements to comply with traditional temple requirements. Swetal has also designed a two storied prayer hall for 1000 people capacity. Swetal has been a link between Indian Sompura (Architect) and Australian Architect / builder. Swetal has been coordinating traditional stone building design with Sompura and regularly visiting Makrana, Rajasthan for quality control of the stone carving and for scheduling the stone delivery according to the construction stages.
- ❖ **Hindu Temple - Moorabbin Melbourne (Melbourne Shwetambar Jain Sangh Inc MSJS): (10M)** Complete structural design of Traditional Stone-Masonry Temple structure. Swetal has been coordinating project with Indian Sompura (Architects) to understand the ritual requirements to accommodate in the Temple Structure.
- ❖ **City of Parramatta Council:** Upgradation of Existing Storm water at Carlingford. Engineering design service for 60m of Box Culverts and 150m of Gabion wall works.
- ❖ **Canterbury Bankstown City Council:**
 - Design, Certification and Safety Inspection for Storage Racks for Roseland Depot, Greenacre Depot and Panania Depot.
 - Addition and alteration at Sefton Golf Course.
 - Design and certification of multiple stormwater pits and connections to Sydney Water Services.
 - Retaining wall/ Bus zone upgrade at Bankstown City Garden
 - Stormwater Culvert Upgrade at Uranus Rd Padstow.
- ❖ **Canterbury Bankstown City Council:** Design and Certification on Sydney Water Culvert Design

- ❖ **Prospect Water Treatment Plant (SUEZ):** SpanCE has been involved in number of projects for this site.
 - Design and certify steel structure to lift 35 ton of water screening wheel for the major maintenance work.
 - Structural stability checks on East West Silo.
 - Structural stability checks for stack 2 at water treatment plant.
- ❖ **Sydney Water West Camden Biosolids Treatment Plant:** 2tonne Monorail design for equipment handling
- ❖ **Department of Education:** Addition & Alteration of Schools.
 - Alstoneville High School , Tweed River High School, Kingcliff High School, Evan River Community School, South Grafton High School
- ❖ **Place of Worship (ISKCON Temple - North Sydney)** Swetal has been involved in alteration & addition of the existing Temple Structure to accommodate additional facilities for increased number of visiting devotees. Alteration & Addition to existing temple structure and complete design and certification of the new steel shade structure. Swetal has been dealing with their building committee to provide best solution for their renovation work.
- ❖ **Place of Worship (Digambar Jain Temple – Seven Hills Sydney):** Complete design and certification of the additional steel floor to accommodate more facilities to the existing Temple. Swetal has work with the managing committee to accommodate these additional facilities in existing warehouse structure.
- ❖ **Industrial Warehouse Design:**
 - Unit 7/15 Tucks Road Seven Hills NSW 2147
 - Unit 30/160 Gilba Road Girraween NSW 2145
 - Schweppes Warwick Farm steel structure.
 - Access Platform Design (Master Fabrications)
 - SUEZ – Prospect Water Treatment Plant
- ❖ **Commercial:**
 - Shop 39 Station Street Wentworthville NSW 2145
 - 13 Joyce Street Pendle Hill NSW 2145
 - Three Pedestrian Bridges – Stephen Edward Constructions.
- ❖ **Residential**
 - Swetal has been involved in more than 1000 residential projects in the last three years. This project list comprises some of the Single Storied and Two Storied Houses including some major extension projects.
- ❖ **The Following are a few other projects that Swetal has completed in the past.**
 - **Blacktown TAP:** Swetal has been involved in design of new link bridge between existing station and Richmond node. He has developed strand 7 models for bridges and carried out design for lateral stability and involved in detail design of the bridge component i.e. pile caps, bridge pier, hollow core plants etc...
 - **Cerberus – HMAS:** This was a defense job in Victoria. The project was to extend the training facility in their existing HMAS site. He has designed Dynamic Leak Stop Repair Unit (DLSRU) & Gas and Diesels Fire Fighting Unit (GDFFU). Swetal was looking after three engineers and seven drafftees.
 - **Madeira Street Sylvania \$10M - QY Group:** Coordination and design of complete project with Architect and builder from Concept to Construction Stage.
 - **Travel Lodge - 7M Paynter Dixon:** Coordination and design of steel roof and PT slab system.
 - **Flinder Centre Bankstown - \$25M Paynter Dixon:** Coordination, design and managing 10 storied office building over the four-storied car park building.
 - **Residential Apartment – 10M Calder Flower Architect):** Coordination, design and managing full project from concept to construction stage.
 - **Norwest Private Hospital (Façade – HPI Architect):** Project comprises façade detail design for the building. Swetal has coordinated a project with Architect and designed light weight steel structure to support Exotec Façade Panels for four storied structures.
 - **Oran Park Town Centre (\$40M) Greenfield Development)** Project comprises three storied retail + commercial buildings with one basement parking and adjacent public road structure.
 - **Pacific Point Apartments (\$20M Denham Constructions)** Project comprises 13 storied residential + 3 storied basement parking.
 - **Australia Post Distribution Centre Alexandria - Adco Construction** it was two large steel warehouse structure with approximate 10,000m2 area each. I have designed all the steel structure including 90m propped portal frame and slab on ground.
 - **Australia Towers, Sydney Olympic Park - \$80M Billbergia Group:** It is 24 storied residential + commercial building. I have carried out design of footings, all vertical elements, PT floors including transfer floor using RAM Concept.
 - **4-14 Merriwa Street & 3 – 22 McIntyre Street Gordon (\$55M MERITON):** It includes couple of nine storied residential buildings. I have looked after this project from preliminary design stage to the final construction stage.
 - **118 Alfred Street Milsons Point \$ 35M Australand – St Hilliers** I have managed this 15-storied building from preliminary design to construction stage.
 - **Project: Bobbin Head Marinas - \$5M Empire Marinas:** The Bobbin Head Empire Marina has 165 floating marina berths and 44 swing moorings along with a boatshed and service facilities. This project comprises an extension of the existing car park, pedestrian access facilities, a steel shed, hardstand and finger piers for travel lift to replace the existing slipways.
 - **Recycling Water Treatment Plant Rouse Hill Sydney - 5M John Holland:** This project comprises design of Idals and Equalization Basin about 6 meters in height and combined about 150 meters long with additional detention tanks. I have also been involved in the development of Finite Element Model in Strand 7.
 - **The Dalgety Townsville - 30M Parkview Construction:** This project comprises 21 residential floors in Townsville and separate 9 levels of car park building.
 - **Cammeray Apartments (A.V. Jennings) (Project cost AUS\$ 16M):** This project comprises 69 residential apartments, which includes two levels of basement parking, ground and three levels of residential floors with structural steel roof.
 - **Caroma Industry Warehouse - \$15M St Hilliers Construction:** It is a large industrial steel shed with one level of basement, gate house and inbuilt office area. It has 58m spanned 22 steel portal frames at about 9m spacings.