

SF&BM
CONSULTANTS PVT. LTD
A STRUCTURAL ENGINEERING FIRM

SF & BM

CONSULTANTS PVT. LTD.

A Structural Engineering Firm

Your Structural Engineering Partner,
not just a vendor.



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www.sandbm.com



OUR STORY

Named After the Forces That Hold Everything Together

SF = Shear Force & BM = Bending Moment

The most fundamental concepts in structural engineering — the starting point of every analysis, every design, every calculation. We are named after the very foundation of the discipline.

- ✓ In 2021, We founded SF & BM Consultants with a simple but powerful conviction:
“structural engineering doesn't have to be complicated to be excellent, It just has to be collaborative... ..”
- ✓ What started as an Ahmedabad-based firm has grown into something more ambitious. Today, we operate In India and the United States, serving everyone from Indian Railways and CPWD to innovative startups. We've delivered 55+ projects, trained teams, built custom tools, and integrated AI into engineering workflows.
- ✓ We don't see ourselves as a service firm. We see ourselves as partners in our **clients' success**. When you bring us a structural challenge — **whether it's a solar farm in Gujarat or a connection detail in South Carolina** — you're gaining a team of engineers who will think about your problem as hard as you do, communicate clearly, and deliver work that exceeds your expectations.
- ✓ We believe in a future where structural engineering is more accessible, more innovative, and more human. **We're still building that future — and we'd love for you to be part of it.**



OUR VISION

A world where structural engineering becomes simpler, smarter, and more human. Where engineers collaborate with AI and each other to build infrastructure that stands the test of time — and improves the world in the process.



OUR MISSION

We partner with architects, builders, developers, and engineers to create structures that last. Every project is an opportunity to innovate, mentor the next generation, and prove that precision and humanity go hand in hand.



Structural Engineering Built on Partnership



WHY CHOOSE SF & BM



Quality That Lasts

Every project is reviewed, checked, and verified. Peer review processes and quality gates ensure your structure is safe, buildable, and cost-effective.



True Partnership

We communicate clearly, explain our reasoning, involve you in decisions, and treat your project's success as our success.



We Solve the Hard Problems

Unusual geometries, difficult constraints, complex loads, multi-market coordination — these are the challenges we love.



Innovation Is Our DNA

AI, advanced FEA, BIM, custom automation — we integrate the latest to make your projects better and faster.



Dual-Market Expertise

We understand both Indian and US engineering practices, codes, and market expectations seamlessly.



We Elevate the Industry

We mentor engineers, share knowledge freely, and believe everyone gets better when we all get better.

WHAT WE STAND FOR



Obsessive Quality

We deliver excellence. Every calculation verified, every detail considered.



Real Collaboration

Your challenges are ours. We listen, adapt, and partner at every step.



Fearless Innovation

AI, custom tools, rethinking delivery — we push forward fearlessly.



Solve the Impossible

Complex geometries, unusual loads — bring them on.



Knowledge Shared

We train, mentor, and share insights. A rising tide lifts all boats.



Integrity Above All

Transparent, honest, and ethical in everything we do. Every day.



HARSHIL DEVANI

Co-Founder &
Principal Engineer

- ✓ M.E. Structural Engg
M.S. University, Vadodara
- ✓ B.E. Civil Engineering
S.V.I.T, VASAD, Gujarat Tech
University
- ✓ GATE (Civil) Qualified,
2016
- ✓ Structural Engineer
On Record Grade-1 (AUDA)

Working Since 2014... ..

20+ Engineering Tools

ETABS • RISA • Abaqus • Revit
Tekla • Rhino • Eneccalc • SAFE
STAAD • RAM • Hilti PROFIS • Idea Statica

MEET THE CO-FOUNDER

- Harshil Devani is a **Structural Engineer** with a Master's degree in Structural Engineering and GATE qualification — credentials that speak to academic rigor. But what you notice first is his genuine curiosity and his rare ability to make complex engineering feel approachable.
- In 2021, he Co-founded SF & BM Consultants with this philosophy at its core. Today, Harshil leads a team across India and the United States, overseeing **55+ projects ranging from railway infrastructure to solar farms to industrial facilities.**
- He's not the 'remote CEO' type — he's hands-on, reviewing designs, mentoring junior engineers, thinking through client challenges, and constantly pushing toward innovation — whether that's integrating AI into workflows or building custom tools that save clients weeks of work.

EXPERTISE

- ✓ Steel, RCC & Wooden Structure Design
- ✓ Finite Element Analysis (FEA)
- ✓ AI Integration in Engineering Workflows
- ✓ 20+ Professional Software Tools
- ✓ US & India Dual-Market Delivery



NITIN BORAD

Co-Founder & Construction "Guru"

The Construction Authority

Experience: Since 2015

ABOUT

Nitin brings deep hands-on construction expertise to SF & BM. With a Master's degree and years of field experience in RCC and steel construction, he bridges the gap between design intent and on-ground reality. His construction acumen ensures every design we produce isn't just theoretically sound — it's practically buildable, efficient, and field-ready.

EDUCATION

- ✓ M.E. — Master of Engineering
- ✓ B.E. Civil Engineering

EXPERTISE

- ★ RCC & Steel Construction Execution
- ★ On-Site Construction Supervision
- ★ Quality Control & Site Management
- ★ Construction Methodology & Planning
- ★ Structural Detailing for Buildability



VINAY ANGHAN

Co-Founder &
Project Management Expert

The Project Commander

EDUCATION

- ✓ M.E. — Master of Engineering
- ✓ B.E. Civil Engineering

Experience: Since 2015

ABOUT

Vinay is the operational backbone of SF & BM. With expertise spanning RCC design, construction management, and project delivery, he ensures every engagement runs smoothly from first calculation to final handover.

His project management skills keep complex timelines on track, budgets in check, and clients informed at every stage.

EXPERTISE

- ✓ RCC Structure Design & Detailing
- ✓ Construction Management & Execution
- ✓ Project Management & Coordination
- ✓ Client Relationship Management
- ✓ Multi-Project Delivery & Planning



SAURABH PANDYA

Senior Engineer & Associate

The Specialist

EDUCATION

- ✓ M.E. — Master of Engineering
- ✓ B.E. Civil Engineering

Experience: Since 2014

ABOUT

Saurabh brings specialized expertise in RCC and water retaining structures — a niche that demands precision, deep code knowledge, and attention to detail.

With experience predating the founding of SF & BM, he's one of the most seasoned engineers on the team. His work on complex concrete structures sets the standard for technical excellence.

EXPERTISE

- ✓ RCC Structure Design & Analysis
- ✓ Water Retaining Structure Design
- ✓ Structural Detailing & Documentation
- ✓ Advanced Concrete Design
- ✓ Code Compliance & Quality Review



ANDY RICHARDSON, PE, SE

Mentor · Guru · Principal at 29E6

The Mentor

CREDENTIALS

- ✓ PE · SE — Licensed in 11+ US States
- ✓ Founder of 29E6 Engineering

Experience: 30+ Years

ABOUT

Nearly 30 years in the structural engineering industry, with wide exposure across applications and highly specialised technical expertise — from hurricane-resilient design in coastal South Carolina to seismic design across the US.

Founder of 29E6, host of the ENHANCE podcast, and a guiding hand to the SF & BM team. Mentorship and excellence in design, in one philosophy.

EXPERTISE

- ✓ Hurricane-Resilient Structural Design
- ✓ Seismic Design Across the US
- ✓ Structural Engineering Mentorship
- ✓ ENHANCE Podcast Host
- ✓ Multi-State PE/SE Practice



HEMANG SHETH

Junior Structural Engineer & BIM Modeller

The Digital Engineer

Experience: 2+ Years

ABOUT

Structural engineer with a digital edge. Handles design calculations, BIM modelling in Revit, and structural drawings — while also building AI-powered tools that accelerate the firm's engineering workflows. As comfortable coding a design automation script as he is detailing a foundation.

EDUCATION

- ✓ B.E. Civil Engineering

EXPERTISE

- ★ AutoCAD Structural Drafting
- ★ Autodesk Revit Modelling
- ★ Structural Design
- ★ Construction Drawing Preparation
- ★ AI Tool Development & Automation

HOW WE WORK

Six Steps to Success

01

Deep Dive & Understanding

Truly understanding your project — requirements, timeline, budget, vision. We ask more questions than most firms.

02

Analysis & Planning

Detailed analysis plan — models, software, complexity level — reviewed and aligned with you before design starts.

03

Design & Optimization

Create, then optimize. Section sizes, detailing, efficiency, buildability — iterating together until it's right.

04

Documentation & Coordination

Professional plans, calculations, reports. BIM coordination across every discipline on the project.

05

Review & Quality Assurance

Every calculation checked. Every drawing verified. Only our best work ships — nothing leaves half-cooked.

06

Support & Collaboration

RFI support, contractor clarifications, value engineering — we're still here after the drawings are issued.

OUR SERVICES

Full-spectrum structural engineering across India & USA



INDIA — Full-Service Structural Engineering

- ✓ Structural Design — Steel, RCC, Light Gauge, Solar, Wood
- ✓ Advanced Analysis — FEA, Seismic, Wind, Connection Design
- ✓ Architectural Planning with Structural Design
- ✓ 3D Modelling & BIM — Revit, Tekla, SketchUp
- ✓ Custom Engineering Tools & Workflow Automation



USA — Consulting, Support & Strategic Services

- ✓ Structural Design & Organized Reporting (AISC, ACI, NDS, IBC, IRC)
- ✓ Project Management & Multi-Discipline Coordination
- ✓ Team Building, Talent Development & Mentoring
- ✓ Company Development & Strategic Consulting
- ✓ Engineer Training & AI Integration

IN DEPTH



Structural Design

Steel • RCC • Light Gauge Steel
Solar Mounting • Wooden Structures
Rigid Pavements • Water Tanks
Machine Foundations • Light Poles



Advanced Analysis

Finite Element Modelling (FEA)
Earthquake / Seismic Analysis
Wind Analysis (Static & Dynamic)
Steel Connection Design



3D Modelling & BIM

Building Information Modelling
Autodesk Revit • Tekla Structures
Fabrication Drawing Preparation
Clash Detection & Coordination



Custom Engineering Tools

Custom Excel Spreadsheets
Automated Calculation Tools
Engineering Workflow Automation
Tailored Client Solutions

IN DEPTH



Design & Reporting

Structural design with comprehensive, organized reporting meeting AISC, ACI, NDS, IBC, IRC, and local building code requirements. Professionally formatted, ready for permitting.



Project Management

Coordinating between disciplines, managing timelines and deliverables, tracking dependencies, and ensuring quality at every project phase.



Team Building

Building and developing engineering teams — training junior engineers, mentoring staff, creating technical culture and implementing best practices.



Company Consulting

Improving efficiency, navigating strategic decisions for growing engineering firms.



AI Integration

Training engineers on AI tools, integrating AI into workflows, building custom solutions that make engineers more productive.



Cross-Timezone Ops

Seamless workflow integration between US and India teams. Clear communication protocols across time zones and cultures.

TECHNOLOGY & TOOLS

20+ professional engineering software in our toolkit



ANALYSIS & DESIGN

Enercalc • RISA 3D • RISA Connection
CSI ETABS • CSI SAFE • IDEA StatiCa
Bentley STAAD Pro • RAM Connection
RAM Concept • RAM Elements
STAAD Adv. Foundation • Bentley RCDC
Hilti PROFIS • Abaqus FEA



BIM & MODELLING

Autodesk Revit
Tekla Structures
Autodesk AutoCAD
SketchUp



DOCUMENTATION & REVIEW

BlueBeam Revu
Excel VBA
Custom Automation Tools



AI PLATFORMS

Claude (Anthropic)
Gemini (Google)
ChatGPT (OpenAI)
Custom AI Workflows

AT A GLANCE

55+

Projects
Delivered

30+

Indian
Projects

25+

US
Projects

8+

Years
Experience

2

Countries
India + USA

10+

Trusted
Clients

20+

Engineering
Software

4

Indian States
Covered



FEATURED PROJECTS

INDIA

01



VANDE BHARAT MAINTENANCE DEPOT

Railway Infrastructure • BBQ, Southern Railway Zone • Chennai, Tamil Nadu

Client: HOG Projects, Southern Railway

Complete structural design of 32m × 260m Heavy & Light Repair Shed, 580m Inspection Shed, and G+1 RCC Service Building for Vande Bharat train maintenance operations.

Industrial Building

02



SINGLE AXIS SOLAR TRACKER

Solar Energy • Jamnagar, Gujarat

Client: Reliance (via Sunchaser Structures Pvt. Ltd.)

Structural design and analysis (with dynamic wind loading) of T1PLB60D-8.1-690Wp Single Axis Tracker system for large-scale solar energy installation.

Renewable Energy

03



WAREHOUSE FOR ABHISHEK STEEL

Industrial / Commercial • Ahmedabad, Gujarat

Client: Abhishek Steel Pvt. Ltd.

Pile foundation, plinth, and pedestal design — complete substructure engineering for an industrial-grade steel warehouse facility.

Deep Foundation Design

04



KANKARIYA YARD SICK LINE EXTENSION

Railway Infrastructure • Kankariya, Ahmedabad

Client: Western Railway

Proposed extension of the existing Sick Line Shed With Self Supporting Roof by 80 meters at Kankariya Yard... .

80m Shed Extension

05



WR OFFICE BUILDINGS

Railway Infrastructure • Kankariya & Sabarmati, Ahmedabad

Client: Western Railway

Design of Sick Line Shed along with G+2 RCC office buildings — Kankariya Office Building and Sabarmati Yard Office Building for Western Railway.

Multi-Structure Project



FEATURED PROJECTS

UNITED STATES

01

MIXED-USE BUILDING

Mixed-Use / Commercial • Bluffton, South Carolina • 2 Story Wooden Structure

Client: 29E6

Complete structural design and Revit structural drafting for a mixed-use building combining residential and commercial functions.

Full Design + Revit

02

PEMB FOUNDATION DESIGN (2 BUILDINGS)

Industrial / PEMB • Mt. Pleasant, South Carolina

Client: 29E6

Foundation and substructure design for two pre-engineered metal buildings, including anchor bolt layouts

PEMB Foundations

03

WARNER RESIDENCE

Wood • Residential • Sheldon, South Carolina

Client: 29E6

Complete structural design for a single-story wood-frame residential home with partial construction documentation in Bluebeam.

Wood-Frame Design

04

OFFICE BUILDING — HYBRID STRUCTURE

Commercial / Office • Mt. Pleasant, South Carolina

Client: 29E6

Structural design for a 3-story office building with concrete ground floor slab and two upper stories in light-gauge steel framing.

Concrete + LGS Hybrid

05

DUNWOODY ROAD COMMERCIAL COMPLEX

Commercial • Chamblee, Georgia • Hot Rolled Steel

Client: 29E6

Complete structural design and construction support for three single-story commercial buildings using hot-rolled steel with light-gauge steel infill.

Commercial Steel

OUR CLIENTS

Trusted by government bodies, contractors, and private enterprises

GOVERNMENT



पश्चिम रेलवे
Western Railway



CENTRAL RAILWAY



કરજણ નગરપાલિકા, કરજણ, જિ.વડોદરા
Government of Gujarat

PRIVATE SECTOR & US PARTNERS



HOG PROJECTS



INNOVATION & AI

Engineering the Future, Today



AI-powered workflows integrated into daily structural engineering practice using Claude, Gemini, and ChatGPT



Custom automation tools that eliminate repetitive tasks — freeing engineers for creative problem-solving



Advanced FEA and simulation capabilities that go beyond traditional hand calculations



Future platform vision: online structural engineering tools — retaining wall calculators, design aids, and more

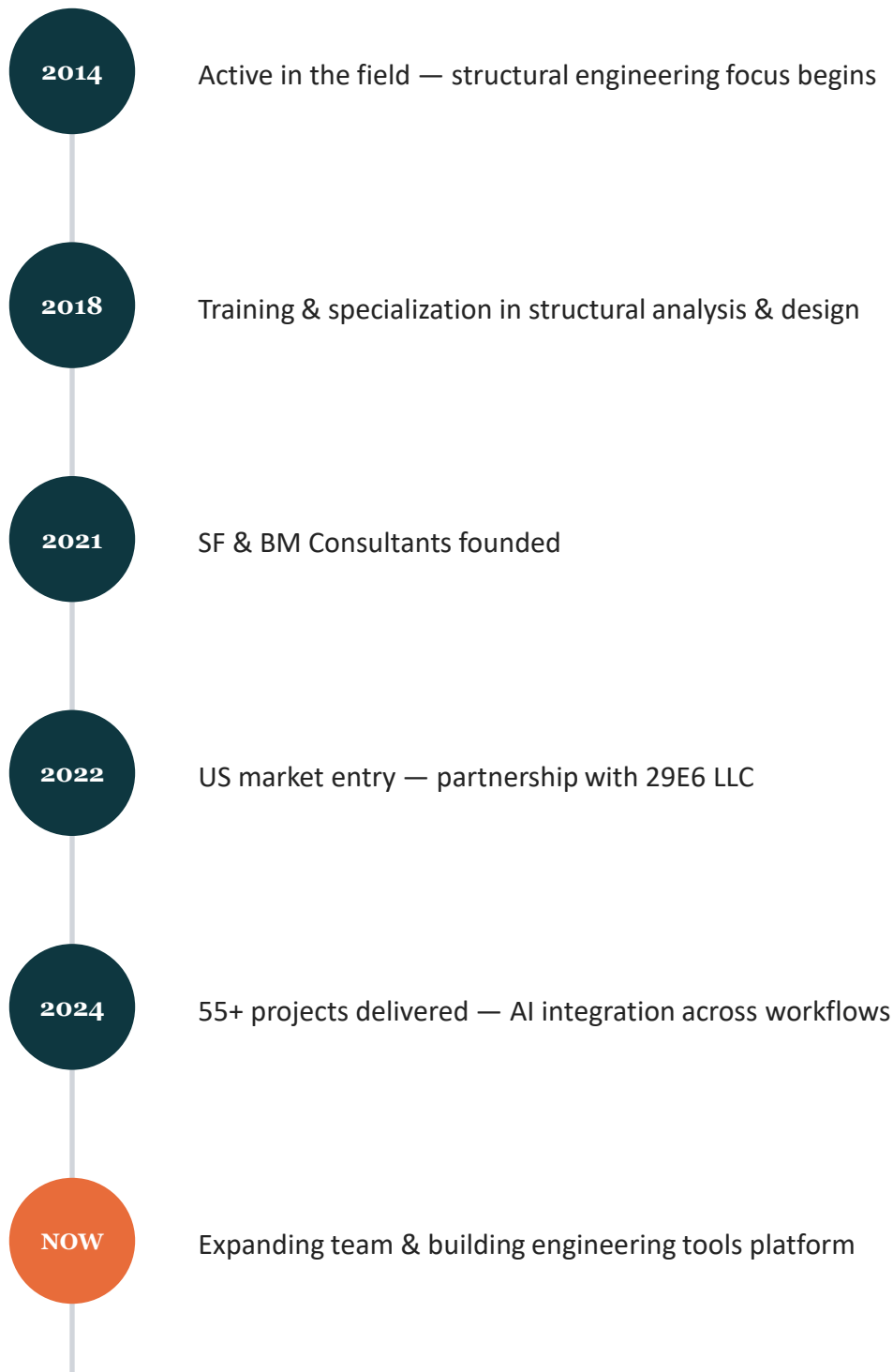


Engineer training programs that prepare teams for the AI-augmented future of structural engineering



*The firms that embrace AI thoughtfully will outpace those that don't.
We make sure you're ahead of the curve.*

OUR JOURNEY



*Building the future of structural engineering —
one project, one innovation, one partnership at a time.*

LET'S BUILD TOGETHER

Whether you have a structural challenge to solve, want to learn more about our services, or are interested in joining our team — we'd love to hear from you



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SCAN TO CONNECT

