

JAYKUMAR PATEL

Civil Engineer | Site Engineer

Auckland, New Zealand | +64 27 306 4299 | jaypatelnz2025@gmail.com | linkedin.com/in/jaykumar-patel-nz
Full New Zealand work rights (Post-Study Work Visa valid to Feb 2029) | Full NZ Class 2 Driver Licence



PROFESSIONAL SUMMARY

Civil Engineer with 7+ years of combined site and project delivery experience across wastewater, drainage, microtunnelling and residential construction in India and the UK. Experienced in client-side PMC supervision, site set-out, QA/QC, contractor coordination, progress reporting and construction support. Recently completed a Master of Engineering (Civil – Construction) at the University of Auckland, with working knowledge of NZS 3910:2023 and three waters infrastructure. Available to relocate anywhere in New Zealand.

CORE COMPETENCIES

Three Waters & Civil Construction: wastewater, gravity sewers, stormwater, water supply, drainage, earthworks, deep shafts and reinforced concrete structures

Site Engineering: setting out, line and level control, inspections, ITPs, QA/QC, as-built records, quantity take-offs and progress reporting

Surveying: Total Station, Auto Level and theodolite

Project Delivery: contractor/subcontractor coordination, programme monitoring, technical queries, variations, tender support and client reporting

Health & Safety: HSWA 2015 knowledge, Site Safe, SWMS/JSA, permit-to-work, hazard identification and toolbox talks

Software: AutoCAD, Civil 3D (developing), Revit, Navisworks, Tekla Structures, MS Project and Excel

PROFESSIONAL EXPERIENCE

Assistant Site Engineer

Jul 2024 – Jan 2025

HMS Works | St Helens, United Kingdom | Six-storey reinforced concrete social housing development, approx. NZD 17M

- Coordinated 7–8 subcontractors across civil, structural, MEP and finishing trades, supporting daily site operations and programme delivery.
- Supported site setting out, material procurement and quantity take-offs, checking works against drawings, specifications and quality requirements.
- Supported permit-to-work, worker inductions and health and safety controls under UK CDM Regulations, including RAMS, COSHH and toolbox talks.
- Tracked programme progress and critical-path activities in MS Project and supported variation and EOT submissions with accurate site records.
- Coordinated traffic management and site logistics for deliveries and external works, protecting workers, residents and the public.

Site Engineer – Project Management Consultancy (PMC)

May 2015 – Sep 2020

NJS Engineers India Pvt. Ltd. | Vadodara, India | Client-side PMC for municipal water and wastewater infrastructure

- Represented the client as a PMC Site Engineer, monitoring contractor delivery across wastewater, drainage, water supply and underground infrastructure works.
- Coordinated topographical, GPR and borehole/SPT investigations; established Temporary Benchmarks (TBMs) and supported survey teams with site control information.
- Verified shaft set-out, pipeline alignment, invert levels and gradients using Total Station and Auto Level against approved drawings and longitudinal sections.
- Supervised deep shaft construction up to approximately 11 m, including excavation, reinforcement, formwork, concrete placement, curing and TBM preparation.
- Monitored TBM and pipe-jacking operations, including pipe identification, line and level, jacking pressures, lubrication and installation records.
- Carried out QA/QC inspections and witnessed concrete and pipeline testing, including slump, compressive strength, hydrostatic, three-edge bearing and water absorption tests.
- Supervised manhole construction, existing sewer connections, DI watermain diversions up to 500 mm, stormwater diversions, backfilling and pavement reinstatement.
- Coordinated contractors, surveyors, utility authorities, consultants and the client to resolve technical, construction and programme issues.
- Prepared Daily Progress Reports maintained QA/as-built records, updated programmes and supported monthly reporting, progress claims and variation records.
- Assisted the Project Manager with checking contractor monthly progress claims, verifying claimed quantities and completed works against site measurements, records, drawings and contract requirements before submission to the client for payment approval.
- Maintained records supporting variations, additional works and payment claims, providing site evidence and measurements for client review.

- Assisted with site investigations, AutoCAD-based quantity calculations and tender documentation for new drainage projects and supported wastewater flow and population calculations.
- Monitored contractor compliance with health and safety requirements, including PPE, inductions, toolbox talks, permits, excavation, confined-space and traffic-management controls.

Technical Assistant / Apprentice Engineer (Civil)

Sep 2013 – Mar 2015

RGPAC and Gujarat State Fertilizers & Chemicals (GSFC) | Vadodara, India

- Supported site supervision, QA/QC and contractor coordination across government and industrial infrastructure works.
- Assisted with measurement and billing, Bar Bending Schedules (BBS) and quantity take-offs.

KEY PROJECTS

BPC Road Trunk Sewer (Growe APS to Shrenik Park), 2019–2020 – 5.1 km gravity trunk sewer upgrade using microtunnelling and open-cut construction, with 1,500–1,800 mm NP-4 RCC jacking pipes, deep shafts and manhole connections.

Admin Ward-10 to Harinagar APS Drainage Line, 2015–2018 – 1.8 km 800 mm gravity drainage line using microtunnelling and open-cut sections through a busy urban corridor, including connection to the existing pumping station.

EDUCATION

Master of Engineering, Civil Engineering (Construction) - University of Auckland, New Zealand | 2025 | Merit

Bachelor of Engineering (Honours), Civil Engineering - University of Central Lancashire, United Kingdom | 2024 | Upper Second-Class Honours (2:1)

Diploma in Civil Engineering - Gujarat Technological University, India | 2013 | Distinction

CERTIFICATIONS & PROFESSIONAL MEMBERSHIPS

Site Safe Foundation Passport (Civil), New Zealand

Engineering New Zealand – Emerging Professional Member

Institution of Civil Engineers (ICE) – Student Member

NEBOSH International General Certificate (IGC)

Site Management Safety Training Scheme (SMSTS), UK

CSCS White Card, UK

LANGUAGES

English (fluent) | Hindi (native) | Gujarati (native)

PERSONAL INTREST

I enjoy playing cricket as a left-hand batsman, travelling and exploring new places, and drone photography. I also volunteer at the temple on weekends, contributing to community activities and events.

REFERENCES

Krunal Panchal – Project Manager, NJS Engineers India Pvt. Ltd. | krunal.panchal@njsei.com

Su Kaur – Operations Manager, First Security | su.kaur@firstsecurity.co.nz