

Ganesh Kalal (MIEAust), Project Engineer – Civil & Infrastructure

Melbourne, VIC | 0424 121 941 | ganesh.r.kalal24@gmail.com | LinkedIn: [Ganesh Kalal](#)

Professional Summary

Civil & Structural Engineer with 5+ years of experience delivering major infrastructure and industrial projects across Tier-1 and Tier-2 environments. Proven expertise in subcontractor management, tender evaluation, design review and approval, and on-site supervision of civil and structural works. Strong commercial acumen with demonstrated success in SOW preparation, pricing negotiations, and contract administration. Member of *Engineers Australia* (MIEAust), currently progressing toward Chartered Professional Engineer registration under the National Engineering Register (NER) pathway.

Key Project Highlights

• ExxonMobil Oil Refinery Demolition Project – Altona, VIC | 2024 – Present | \$65M

Project Engineer managing subcontractor packages and on-site civil/structural works. Prepared SOWs/RFQs and conducted technical & commercial evaluation of 15+ tender submissions. Reviewed and approved contractor designs and negotiated contract variations totaling \$8M+. Supervised on-site concrete demolition works and coordinated statutory approvals with *Hobsons Bay City Council*.

• Rio Tinto Refinery Demolition & Land Remediation Project – Gove, NT | 2024 – 2025 | \$300M

Project Engineer on Australia's largest industrial closure project. Prepared procurement documentation and reviewed structural design packages for AS 3600 & AS 4100 compliances. Managed contractor coordination, quality verification, and progress claims across multiple subcontractors.

• National 5G Telecom Upgrade Program, Victoria | 2023 – 2024 | \$50M

Led structural design coordination for 150+ tower upgrades. Conducted technical evaluation of subcontractor proposals and completed 100+ site inspections ensuring AS/NZS 1170 compliance. Secured statutory approvals from 20+ councils.

• West Gate Freeway Upgrade Project, Melbourne | 2022 – 2023

Delivered structural design and construction oversight of reinforced concrete crash barriers and precast noise walls per VicRoads standards and AS 5100. Reviewed subcontractor shop drawings and supervised on-site concrete pours and panel installation. Conducted quality assurance including concrete testing and reinforcement verification, achieving zero non-conformances across 100+ installations

Core Competency

- Project Management – Scheduling, budgeting, progress reporting, resource coordination, and client liaison
- Procurement & Contract Management
- Structural Design & Technical Review – RCC (Precast, Pre and Post Tensioned) Steel & Timber structures
- Stakeholder Management
- Quality Assurance & Compliance , Site supervision, inspections safety audits, and adherence to NCC/Australian Standards

Technical Skills

- **Project Management & Reporting:** MS Project, P6, MS Office Suite, Procore, Oracle NetSuite, IPM
- **Design & Drafting:** AutoCAD 2D, Civil 3D/MAP 3D, 12d, Bluebeam, Sketch Up
- **Structural Analysis:** SpaceGass, Structural Toolkit, Microstran, MS Tower, RAPT, Inducta
- **Standards & Compliances:** NCC, Australian Standards, VicRoads

Professional Experience

- Project Engineer – Structures** 02/2024 – Present
Liberty Industrial, Altona, VIC
- Coordinated planning, sequencing, and delivery of heavy civil & structural works on \$100M+ industrial projects including subcontractor management and site mobilisation
 - Prepared SOWs, RFQs, ITPs, and managed technical queries, RFIs, and engineering coordination with consultants and client representatives
 - Produced weekly progress reports covering cost, schedule, risk management, and secured statutory approvals with councils and WorkSafe
 - Conducted site inspections, verified hold points, led safety audits, and supported budget forecasting and contract variations (EOTs/claims)

Structural Engineer – Telecom Upgrades 04/2023 – 03/2024

Indara Digital Infrastructures, Melbourne, VIC

- Delivered 150+ lattice tower and steel as well as timber pole upgrades including structural design, analysis, and fabrication coordination
- Reviewed structural drawings and ITPs for AS/NZS 1170 & 4100 compliance and conducted field inspections
- Supported tender evaluation, provided technical input to contract negotiations, and secured statutory approvals from 20+ councils

Graduate Structural Engineer 11/2021 – 03/2023

Clive Steele Partners, Clayton, VIC

- Designed reinforced concrete elements (barriers, walls, foundations, slabs) to AS 3600 and prepared construction drawings.
- Reviewed subcontractor shop drawings and supervised on-site concrete works including quality testing and verification
- Coordinated approvals with councils, organised geotechnical surveys and DBYD searches
- Conducted asset inspections and prepared rectification recommendations for municipal infrastructure

Education

Master of Engineering Science (Structural Engineering) (2019 – 2021)

Swinburne University of Technology, VIC

Bachelor of Civil Engineering (2014 – 2018)

University of Pune, India

Certifications & Licenses

- Construction Induction Card (White Card)
- Working at Heights Training
- Practical Application of Generative AI for Project Managers
- Victorian Driver's License (Class C)

Memberships

- Engineers Australia (*MIEAust*) – NER Registration in progress for Victoria
- Project Management Institute (*PMI*) – Working towards PMP certification

VISA Status

Australian Permanent Resident

References

Available on request

Ganesh Kalal

Project Engineer - Civil & Infrastructure

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Professional Summary

Civil/Structural Engineer with over 5 years' experience delivering large transport infrastructure, refinery closures, and telecom upgrade programs for Tier-1/2 contractors. Skilled in surveillance, conformance, and documentation control aligned with Independent Reviewer requirements, including ITP development, statutory documentation, RFI/NCR close-out, and MDR compilation. Strong understanding of Australian Standards, construction sequencing, and compliance for above and below ground structures. Early work on the West Gate Freeway Upgrade and Mumbai Metro projects built a solid foundation in verification, concrete quality, and heavy civil inspection, supporting a transition into Independent Reviewer roles on freeway and tunnel-scale programs. Member of *Engineers Australia*; progressing towards NER & PMP registration.

Core Competencies

- **Contractor Administration:** SOW/RFQs, tender package reviews, progress verification, variations/EOTs
- **Surveillance & Inspection:** Monitoring site works, verifying hold points, material traceability, and inspection testing against approved standards.
- **Documentation & Reporting:** Preparation of surveillance reports, verification logs, and MDRs to support Independent Reviewer sign-off and assurance deliverables.
- **Stakeholder Management:** Utility services, consultants, land acquisition, Councils permits & approvals
- **Compliance:** OH&S, Critical risk management, Safety audits, Statutory documentation for local authorities
- **Structural Inspection & Design:** Performed basic structural design, analysis and engineering drafting for steel, reinforced concrete and timber elements in accordance with relevant Australian Standards.

Key Project Highlights

• **West Gate Freeway Upgrade Project, Melbourne | 2022 - 2023**

Performed structural design and analysis of reinforced concrete safety barriers (RCC crash barriers) and noise walls in accordance with VicRoads Design Guide and Australian Standards. Ensured compliance with VicRoads Traffic Noise Reduction Policy and post-installation verification guidelines. Supervised installation works and conducted inspections, including noise monitoring, barrier deflection, and durability checks to validate performance and QA traceability.

• **Mumbai Metro Line 4 & 5 Project, India | 2018 - 2019**

Supported the independent verification and QA/QC functions during the construction of elevated viaducts and metro stations across Line 4 and 5 packages. Performed inspection and testing of reinforced concrete works, including pier foundations, pile caps, and precast segment installations, ensuring dimensional accuracy and compliance with design drawings, IS codes, and project specifications. Monitored tunnel alignment, excavation safety, and installation of bearings, girders, and bridge decks to verify conformance with quality and safety requirements. Collaborated with TATA Projects engineers, surveyors, and contractors to review ITPs, material testing reports, and close out NCRs, strengthening the overall inspection and verification process for major transport infrastructure.

• **National 5G Telecom Upgrade Program, Victoria | 2023 - 2024**

Led structural design coordination and secured authority approvals. Completed over 100 site inspections ensuring safety and conformance with design specifications. Coordinated local fabricators and field crews and provided concise progress and risk updates to management to maintain delivery milestones.

- **Mobil (Altona, VIC) & Rio Tinto (Gove, NT) refinery closures, Australia | 2024 – Present |**

Supported mechanical and controlled explosive demolition of refinery assets, including the *Gove Refinery the largest demolition project in the Southern Hemisphere*, ensuring safety, compliance, and environmental performance. Contributed to pre-contract and delivery phases through RFQs/SOWs, development schedules, and management plans for tender submissions. Reviewed demolition methodologies, risk assessments, and post-blast inspection reports in coordination with HSEQ and engineering teams.

Professional Experience

Project Engineer – Planning & Delivery

03/2024 – Present

Liberty Industrial, Altona, VIC

- Conducted structural inspections of refinery infrastructure to ensure safe dismantling and demolition
- Prepared management plans, SWMS, ITPs, and work packs integrating risk and QA traceability requirements
- Coordinated procurement, supplier onboarding, and mobilisation for remote project delivery
- Produced weekly PMO reports covering progress, risk, approvals, and interface decisions
- Prepared RFQs/SOWs, review quotations, and raise POs ensuring value and audit readiness
- Coordinated statutory approvals with Hobsons Bay City Council and NT WorkSafe
- Verified progress claims, lead safety audits, and administer budget variations and EOTs

Structural Engineer – Telecom Upgrades

04/2023 – 03/2024

Indara Digital Infrastructures, Melbourne, VIC

- Delivered over 150 lattice tower and steel pole upgrades including design, analysis, and fabrication coordination
- Reviewed structural drawings, fabrication documents, and ITPs for compliance with AS/NZS 1170 & 4100
- Conducted field inspections, reinforcement checks, and monitored hold and witness points
- Compiled verification reports summarising construction progress, risks, and design conformance
- Supported tender evaluation and quality risk reviews ensuring traceable documentation

Graduate Structural Engineer

11/2021 – 03/2023

Clive Steele Partners, Clayton, VIC

- Delivered components for *West Gate Freeway* (precast noise walls, RRC barriers) to VicRoads design standards
- Prepared lift plans for precast panel installation and carried out post-installation inspections
- Designed structural elements including beams, columns, footings, and slabs for residential and commercial structures
- Conducted over 100 inspections and produced remedial strategies for community and residential assets
- Designed stormwater and OSD systems and prepared technical drawings and reports.

Graduate Civil Engineer

06/2020 – 10/2021

Structcom Consulting Engineers, Caulfield, VIC

- Supported structural design and drafting for community centres, pavilions, courts and public transport assets.
- Coordinated approvals with council officers & developers; organised land surveys, Geotech, DBYD and certifications.
- Performed asset inspections and recommended rectification works.
- Drafted floor plans, connection details, and elevations for residential projects.

Engineering Cadet

Mumbai Metro Line 4 & 5 project, Tata Projects, Mumbai, India

02/2018 - 07/2019

- Assisted Independent Verification and QA teams on viaduct and station construction.
- Performed concrete QA / QC, including slump testing, cube sampling, and dimensional checks.
- Conducted pile integrity and dynamic load testing for foundations and pier caps.
- Monitored excavation safety and installation of bearings and precast bridge elements.

Education

Master of Engineering Science (Structural Engineering)

(2019 – 2021)

Swinburne University of Technology, VIC

Bachelor of Civil Engineering

(2014 – 2018)

University of Pune, India

Certifications & Licenses

- Construction Induction Card (White Card)
- Working at Heights Training
- Confined Spaces (Enter/Supervise) Training
- Mental Health First Aider
- Practical Application of Generative AI for Project Managers
- Victorian Driver's License (Class C)

Memberships

- Engineers Australia (*MIEAust*) – NER Registration in progress
- Project Management Institute (*PMI*) – Working towards PMP certification

Technical Skills

- **Project Management & Reporting:** MS Project, P6, MS Office Suite, Procore, Oracle NetSuite, IPM
- **Design & Drafting:** AutoCAD 2D, Civil 3D/MAP 3D, 12d, Bluebeam, Sketch Up
- **Structural Analysis:** SpaceGass, Structural Toolkit, Microstran, MS Tower, RAPT, Inducta
- **Standards & Compliances:** NCC, Australian Standards, VicRoads

VISA Status

Australian Permanent Resident

Reference

Available On Request

Ganesh Kalal

Civil/Structural Engineer

 ganesh.r.kalal24@gmail.com

 0424 121 941

 Melbourne, VIC

 Ganesh Kalal

PROFESSIONAL SUMMARY

Civil/Structural Engineer with 5 years' experience in civil infrastructure, drainage and structural projects across Tier 1 & 2 companies in Australia. Skilled in stormwater drainage design, planning approvals, statutory processes and technical reporting for council projects. Experienced in drainage renewals, upgrades, remediation works, with exposure to flood risk assessments and Water Sensitive Urban Design (WSUD). Strong background in structural design, project delivery, contract management, plus collaboration with councils, contractors and developers to deliver safe, compliant outcomes.

KEY STRENGTHS

- Drainage design, preparing Stormwater Management Plans and Flood risk assessment.
- Familiar with Water Act, Building Regulations, Planning Regulations and Road Management Act
- Structural design and analysis (Steel, RCC, Timber)
- Proficient in AutoCAD 2D, Civil 3D and structural design tools; Actively learning DRAINS and MUSIC for drainage design.
- Project delivery, contract & stakeholder management
- Strong community engagement

TECHNICAL SKILLS

Drafting/BIM

(AutoCAD 2D, Civil 3D, MAP 3D, Blue Beam)

Compliance & Standards

(ARR 2019, National Construction Code (NCC), Australian Standards, VicRoads)

Project/Construction Programming

(MS Office, MS Project, Power BI)

Structural Analysis/Design

(RAPT, Microstran, Space Gass, Structural Toolkit)

PROFESSIONAL EXPERIENCE

Project Engineer - Execution & Delivery

03/2024 – Present | Melbourne, VIC

Liberty Industrial

Part of the delivery team on \$50M+ *ExxonMobil Refinery Closure (Altona, VIC)* and \$220M+ *Rio Tinto Bauxite Refinery Closure (Gove, NT)* — The largest industrial closure project in the Southern Hemisphere, involving explosive demolition events.

- Reviewed and analysed Stormwater Management Plans and industrial water drainage systems with *Hobsons Bay Council* to assess impacts on council infrastructure and flood risk.
- Assessing the capacity of seawater channels under changing site conditions due to demolition and closure works.
- Organised scrap steel load-outs exceeding 135,000 tonnes, representing approximately \$65M+ in scrap value supporting safe and efficient site closure.
- Conducting structural inspections of refinery infrastructure to ensure safe dismantling and demolition.
- Supporting project delivery through contract administration, budget tracking and cost variation assessments.

Structural Engineer - Telecom Infrastructure

04/2023 – 03/2024 | Melbourne, VIC

Indara Digital Infrastructures

Delivered 120+ upgrades for telecom infrastructure across Australia, including lattice towers, steel and concrete poles, with responsibility for structural design, inspections and statutory approvals.

- Conducted 100+ site inspections for telecom structures ensuring safety & compliance.
- Secured permits & approvals liaising with councils & local authorities.
- Designed foundations for lattice towers, steel/concrete poles and rooftop telecom structures for new or existing telecom ancillaries.

- Reviewed and drafted structural and civil drawings.
- Contributed technical input for multiple bids and tenders, strengthening project proposals and client confidence.

Graduate Structural Engineer

Clive Steele Partners

Worked on residential, commercial and community assets, supporting both structural and civil designs (OSD, pavements, septic tank layouts, rainwater & stormwater drainage, landscaping).

- Designed stormwater drainage systems and OnSite Detention (OSD) systems for rainwater management across 70+ residential and commercial projects up to 6 storeys.
- Assisted with drainage designs and approvals including Legal Point of Discharge (LPOD) assessments
- Reduced council approval timelines by 25% by preparing clear schedules and mitigation measures to support timely delivery.
- Conducted 100+ site inspections, developed remedial strategies and technical reports that improved safety and extended the life of community assets.
- Delivered structural designs and drawings for RCC slabs, suspended slabs, pavements, and framing elements, ensuring compliance with NCC and Australian Standards.
- Resolved compliance issues with contractors and architects, minimising delays and maintaining quality outcomes.

Graduate Civil Engineer

Structcom Consulting Engineers

Focused on civil works and municipal asset upgrades in Melbourne South-East region, delivering drainage and public assets renewal projects in line with NCC and Australian standards.

- Delivered drainage, utilities and municipal infrastructure renewal projects in compliance with MRPV/VicRoads specifications
- Inspected public assets & developed rectification strategies
- Coordinated approvals with council officers & developers
- Produced drawings, reports & submissions for planning

EDUCATION

Master of Engineering Science (Structural Engineering)

Swinburne University of Technology

2019 – 2021 | Hawthorn, VIC

Bachelor of Civil Engineering

University of Pune, India

2014 – 2018 | Pune, India

PROFESSIONAL MEMBERSHIPS

Engineers Australia

Project Management Institute

The Institute of Structural Engineers

CERTIFICATIONS & LICENCES

- | | | |
|---|--|--------------------------------|
| • Practical Application of Generative AI for Project Managers | • Construction Induction Card (White Card) | • Victorian Driving Licence |
| • Leadership Development | • Mental Health Awareness Training | • First Aid Responder Training |
| • Asbestos Safety Training | | |

Ganesh Kalal

Project Engineer – Civil & Major Infrastructure

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Professional Summary

Civil & Structural Engineer with 5+ years of experience delivering major infrastructure and industrial projects across Tier-1 and Tier-2 environments. Proven expertise in subcontractor management, tender evaluation, design review and approval, and on-site supervision of civil and structural works. Member of *Engineers Australia (MIEAust)*, currently progressing toward Chartered Professional Engineer registration under the *National Engineering Register (NER)* pathway and *RPEV* certification.

Key Project Highlights

- **West Gate Freeway Upgrade Project, Melbourne | 2022 – 2023**

Graduate Civil Engineer - Major Transport Infrastructure

Supported live-traffic freeway upgrade works delivering reinforced concrete crash barriers and precast noise walls. Undertook site supervision, QA inspections, and compliance verification to VicRoads and AS 5100 requirements, achieving zero non-conformances across 100+ installations.

- **Mumbai Metro Line 4 Project – Mumbai, India | 2018–2019 |**

Civil Engineer – Site Supervision

Worked on government-funded metro rail construction involving elevated viaducts and underground tunnel interfaces. Provided site investigation, supervision, and QA support for reinforced concrete foundations, piers, and superstructure works for overhead metro bridges, while also supporting underground tunnel (TBM) operations and station-related construction activities in dense urban environments.

- **National 5G Telecom Upgrade Program, Victoria | 2023 – 2024 | \$50M**

Structural Engineer – Design and Analysis

Delivered design-assist and site support for large-scale telecom infrastructure upgrades, including steel lattice towers, monopoles, antennas, and foundations as per AS/NZS 1170.2 . Designed and supported construction and rectification works for 1,250+ towers across metro and regional Victoria while coordinating approvals and construction support

- **ExxonMobil Oil Refinery Closure and Land Remediation Project – Altona, VIC | 2024 – Present | \$65M**

Project Engineer – Demolition, Decontamination, Bulk Earthwork

Managed subcontractor work packages across complex brownfield civil and structural demolition scopes. Prepared RFQs and SOWs and led technical and commercial evaluation of 15+ subcontractor tenders. Assessed progress claims and administered \$8M+ in variations, while ensuring strict safety, environmental, and quality compliance.

Core Competency

- Exposure to bulk earthworks, drainage, roadworks, and authority-led land development projects.
- Day-to-day Site Management & Construction Delivery
- Contract negotiation | Cost Control | Progress Claims | Variations | Procurement
- Structural design of reinforced concrete (precast, pre- and post-tensioned), steel, and timber framing systems
- Subcontractor Management & Coordination
- Safety, Environmental & Quality Compliance (HSEQ / QA)

Education

Master of Engineering Science (Structural Engineering)

(2019 – 2021)

Swinburne University of Technology, VIC

Bachelor of Civil Engineering

(2014 – 2018)

University of Pune, India

Professional Experience

Liberty Industrial - Project Engineer (Structures)

Altona, VIC | 02-2024 – Present

- Coordinated planning, sequencing, and execution of civil & structural works on \$100M+ projects
- Managed subcontractors, site mobilisation, procurement, and work packaging
- Prepared management plans, ITPs, RFIs, and weekly progress reports covering cost, schedule, and risk
- Led safety audits, verified hold points, and supported variation claims up to \$8M+ and EOT assessments

Indara Digital Infrastructures - Structural Engineer (Telecom Upgrades)

Melbourne, VIC | 04-2023 – 03-2024

- Delivered structural upgrades for telecom infrastructure (steel lattice tower, headframe, concrete and timber poles), supporting steel fabrication, site delivery and approvals
- Reviewed drawings, ITPs, and construction methodologies for compliance
- Supported tender evaluations and contractor coordination

Clive Steele Partners - Graduate Structural Engineer

Clayton, VIC | 11/2021 – 03/2023

- Designed reinforced concrete elements (barriers, walls, foundations, slabs) to AS 3600 and prepared construction drawings.
- Reviewed subcontractor shop drawings and supervised on-site concrete works including quality testing and verification
- Coordinated approvals with councils, organised geotechnical surveys and DBYD searches
- Conducted asset inspections and prepared rectification recommendations for municipal infrastructure

Structcom Consulting Engineers – Graduate Civil Engineer

Caulfield, VIC | 06/2020 – 10/2021

- Supported structural design and analysis of reinforced concrete elements for community, residential, and transport-related infrastructure projects.
- Delivered civil design works including stormwater drainage and OSD systems, preparing drawings, layouts, and technical documentation.
- Coordinated with councils, developers, and consultants, managing approvals, geotechnical inputs, DBYD searches, and site inspections.

Mumbai Metro Line 4 Project – Civil Engineer (Tunnel & Piling Works)

Mumbai, India | 08/2018 – 06/2019

- Supported construction of underground metro tunnels, including TBM-related works, shafts, and tunnel lining interfaces.
- Supervised bridge piling and reinforced concrete substructure works, including piles, pile caps, and associated concrete activities.
- QA inspections, reinforcement checks, and concrete verification in dense urban construction environments.

Technical Skills

- **Project Management & Reporting:** MS Project, P6, MS Office Suite, Procore, Oracle NetSuite, InEight
- **Design & Drafting:** AutoCAD 2D, Civil 3D/MAP 3D, 12d, Bluebeam, Sketch Up
- **Structural Analysis:** SpaceGass, Structural Toolkit, Microtran, MS Tower, RAPT, Inducta
- **Standards & Compliances:** NCC, Australian Standards, VicRoads Standards

Certifications & Licenses

- Construction Induction Card (White Card)
- Working at Heights Training
- Practical Application of Generative AI for Project Managers
- Victorian Driver's License (Class C)
- Asbestos safety Training (Removal and disposal)

Memberships

- Engineers Australia (*MIEAust*) – NER Registration in progress
- Project Management Institute (*PMI*) – Working towards PMP certification

Technical Skills

- **Project Management & Reporting:** MS Project, P6, MS Office Suite, Procore, Oracle NetSuite, IPM
- **Design & Drafting:** AutoCAD 2D, Civil 3D/MAP 3D, 12d, Bluebeam, Sketch Up
- **Structural Analysis:** SpaceGass, Structural Toolkit, Microstran, MS Tower, RAPT, Inducta
- **Standards & Compliances:** NCC, Australian Standards, VicRoads

VISA Status

Australian Permanent Resident

Reference

Available On Request

Ganesh Kalal

Project Engineer - Civil & Infrastructure

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Professional Summary

Project Engineer with hands-on experience across construction, demolition, remediation, and infrastructure projects within Tier-1 and Tier-2 environments. Proficient in structural design, site supervision, and quality assurance, with a strong track record of delivering safe, compliant, and efficient project outcomes. Well-versed in Australian Standards, construction sequencing, and regulatory requirements for both above-ground and below-ground structures. Currently progressing toward Engineers Australia NER registration.

Core Competencies

- Project & Site Management:** Planning, resourcing, procurement, and site mobilisation for demolition, remediation, and construction works, including supervision of remote/outback sites and coordination of critical sequencing.
- Structural Design & Technical Support:** Delivering basic structural design/analysis for steel, RCC, and timber elements, supporting temporary works, and interpreting engineering drawings to ensure safe demolition methodology.
- Reporting & Stakeholder Liaison:** Preparing surveillance reports, verification logs, MDRs, incident/event logs, and schedule updates while coordinating with utilities, consultants, councils, and land access authorities.
- Surveillance, Inspection & Compliance:** Conducting site inspections, hold-point verification, material traceability, ITP checks, and ensuring adherence to OH&S, critical risk controls, NCC, Australian Standards, and statutory requirements.

Key Project Highlights

ExxonMobil Oil Refinery Demolition Project – Altona, VIC | 2024 – Present | \$65 M

Project Engineer supporting the safe decommissioning and demolition of major refinery assets including stacks, LPG tanks, boilers and pipe racks. Contributed to planning and supervision of heavy mechanical demolition, controlled explosive events, temporary works coordination, and logistics. Used drone/GPS surveys for progress tracking and reporting. Ensured strict safety, environmental and compliance standards on one of Victoria's most complex industrial closure projects.

Rio Tinto Refinery Demolition & Land Remediation Project – Gove, NT | 2024 – Present | \$300 M

Project Engineer on Australia's largest industrial demolition project, overseeing decontamination, heavy structural dismantling, precision explosive works, and large-scale material recovery. Supported environmental controls, risk management, and stakeholder engagement, including coordination with Gumatj Traditional Owners. Delivered works to Rio Tinto's high standards for safety, compliance, and responsible site closure.

National 5G Telecom Upgrade Program, Victoria | 2023 – 2024 | \$50 M

Led structural design coordination and secured authority approvals. Completed over 100 site inspections ensuring safety and conformance with design specifications. Coordinated local fabricators and field crews and provided concise progress and risk updates to management to maintain delivery milestones.

West Gate Freeway Upgrade Project, Melbourne | 2022 - 2023

Performed structural design and analysis of reinforced concrete safety barriers (RCC crash barriers) and noise walls in accordance with VicRoads Design Guide and Australian Standards. Ensured compliance with VicRoads Traffic Noise Reduction Policy and post-installation verification guidelines. Supervised installation works and conducts inspections, including noise monitoring, barrier deflection, and durability checks to validate performance and QA traceability.

Professional Experience

- Project Engineer – Planning & Delivery** 03/2024 – Present
Liberty Industrial, Altona, VIC
- Conducted structural inspections of refinery infrastructure to ensure safe dismantling and demolition
 - Prepared management plans, SWMS, ITPs, and work packs integrating risk and QA traceability requirements
 - Coordinated procurement, supplier onboarding, and mobilisation for remote project delivery
 - Produced weekly PMO reports covering progress, risk, approvals, and interface decisions
 - Prepared RFQs/SOWs, review quotations, and raise POs ensuring value and audit readiness
 - Coordinated statutory approvals with Hobsons Bay City Council and NT WorkSafe
 - Verified progress claims, lead safety audits, and administer budget variations and EOTs
- Structural Engineer – Telecom Upgrades** 04/2023 – 03/2024
Indara Digital Infrastructures, Melbourne, VIC
- Delivered over 150 lattice tower and steel pole upgrades including design, analysis, and fabrication coordination
 - Reviewed structural drawings, fabrication documents, and ITPs for compliance with AS/NZS 1170 & 4100
 - Conducted field inspections, reinforcement checks, and monitored hold and witness points
 - Compiled verification reports summarising construction progress, risks, and design conformance
 - Supported tender evaluation and quality risk reviews ensuring traceable documentation
- Graduate Structural Engineer** 11/2021 – 03/2023
Clive Steele Partners, Clayton, VIC
- Delivered components for *West Gate Freeway* (precast noise walls, RRC barriers) to VicRoads design standards
 - Prepared lift plans for precast panel installation and carried out post-installation inspections
 - Designed structural elements including beams, columns, footings, and slabs for residential and commercial structures
 - Conducted over 100 inspections and produced remedial strategies for community and residential assets
 - Designed stormwater and OSD systems and prepared technical drawings and reports.

- Graduate Civil Engineer** 06/2020 – 10/2021
Structcom Consulting Engineers, Caulfield, VIC
- Supported structural design and drafting for community centres, pavilions, courts and public transport assets.
 - Coordinated approvals with council officers & developers; organised land surveys, Geotech, DBYD and certifications.
 - Performed asset inspections and recommended rectification works.
 - Drafted floor plans, connection details, and elevations for residential project

Education

- Master of Engineering Science (Structural Engineering)** (2019 – 2021)
Swinburne University of Technology, VIC
- Bachelor of Civil Engineering** (2014 – 2018)
University of Pune, India

Certifications & Licenses

- Construction Induction Card (White Card)
- Working at Heights Training
- Mental Health First Aider
- Practical Application of Generative AI for Project Managers
- Victorian Driver's License (Class C)

Memberships

- Engineers Australia (*MIEAust*) – NER Registration in progress
- Project Management Institute (*PMI*) – Working towards PMP certification

Technical Skills

- **Project Management & Reporting:** MS Project, P6, MS Office Suite, Procore, Oracle NetSuite, IPM
- **Design & Drafting:** AutoCAD 2D, Civil 3D/MAP 3D, 12d, Bluebeam, Sketch Up
- **Structural Analysis:** SpaceGass, Structural Toolkit, Microstran, MS Tower, RAPT, Inducta
- **Standards & Compliances:** NCC, Australian Standards, VicRoads

VISA Status

Australian Permanent Resident

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Project Engineer

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Professional Summary-

Project Engineer with hands-on experience across construction, decommissioning, demolition, remediation, and infrastructure projects within Tier-1 and Tier-2 environments. Proficient in structural design, site supervision, and quality assurance, with a strong track record of delivering safe, compliant, and efficient project outcomes. Well-versed in Australian Standards, construction sequencing, and regulatory requirements for both above-ground and below-ground structures. Currently progressing toward Engineers Australia NER registration.

Core Competencies

- Project & Site Management:** Planning, resourcing, procurement, and site mobilisation for demolition, remediation, and construction works, including supervision of remote/outback sites and coordination of critical sequencing.
- Structural Design & Technical Support:** Delivering basic structural design/analysis for steel, RCC, and timber elements, supporting temporary works, and interpreting engineering drawings to ensure safe demolition methodology.
- Reporting & Stakeholder Liaison:** Preparing surveillance reports, verification logs, MDRs, incident/event logs, and schedule updates while coordinating with utilities, consultants, councils, and land access authorities.
- Surveillance, Inspection & Compliance:** Conducting site inspections, hold-point verification, material traceability, ITP checks, and ensuring adherence to OH&S, critical risk controls, NCC, Australian Standards, and statutory requirements.

Key Project Highlights

- ExxonMobil Oil Refinery Decommissioning Project – Altona, VIC | 2024 – Present | \$70 M**
Project Engineer supporting the safe decommissioning and demolition of major refinery assets including stacks, LPG tanks, boilers and pipe racks. Contributed to planning and supervision of heavy mechanical demolition, controlled explosive events, temporary works coordination, and logistics. Used drone/GPS surveys for progress tracking and reporting. Ensured strict safety, environmental and compliance standards on one of Victoria's most complex industrial closure projects.
- Rio Tinto Bauxite Refinery Closure & Land Remediation Project – Gove, NT | 2024 – Present | \$350 M**
Project Engineer on Australia's largest industrial demolition project, overseeing decontamination, heavy structural dismantling, precision explosive works, and large-scale material recovery. Supported environmental controls, risk management, and stakeholder engagement, including coordination with Gumatj Traditional Owners. Delivered works to Rio Tinto's high standards for safety, compliance, and responsible site closure.
- National 5G Telecom Upgrade Program, Victoria | 2023 – 2024 | \$50 M**
Led structural design coordination and secured authority approvals. Completed over 100 site inspections ensuring safety and conformance with design specifications. Coordinated local fabricators and field crews and provided concise progress and risk updates to management to maintain delivery milestones.
- West Gate Freeway Upgrade Project, Melbourne | 2022 - 2023**
Performed structural design and analysis of reinforced concrete safety barriers (RCC crash barriers) and noise walls in accordance with VicRoads Design Guide and Australian Standards. Ensured compliance with VicRoads Traffic Noise Reduction Policy and post-installation verification guidelines. Supervised installation works and conducts inspections, including noise monitoring, barrier deflection, and durability checks to validate performance and QA traceability.

Professional Experience

Project Engineer – Planning & Delivery	03/2024 – Present
Liberty Industrial, Altona, VIC	
<ul style="list-style-type: none">Conducted structural inspections of refinery infrastructure to ensure safe dismantling and demolitionPrepared management plans, SWMS, ITPs, and work packs integrating risk and QA traceability requirementsCoordinated procurement, supplier onboarding, and mobilisation for remote project deliveryProduced weekly PMO reports covering progress, risk, approvals, and interface decisionsPrepared RFQs/SOWs, review quotations, and raise POs ensuring value and audit readinessCoordinated statutory approvals with Hobsons Bay City Council and NT WorkSafeVerified progress claims, lead safety audits, and administer budget variations and EOTs	
Structural Engineer – Telecom Upgrades	04/2023 – 03/2024
Indara Digital Infrastructures, Melbourne, VIC	
<ul style="list-style-type: none">Delivered over 150 lattice tower and steel pole upgrades including design, analysis, and fabrication coordinationReviewed structural drawings, fabrication documents, and ITPs for compliance with AS/NZS 1170 & 4100Conducted field inspections, reinforcement checks, and monitored hold and witness pointsCompiled verification reports summarising construction progress, risks, and design conformanceSupported tender evaluation and quality risk reviews ensuring traceable documentation	
Graduate Structural Engineer	11/2021 – 03/2023
Clive Steele Partners, Clayton, VIC	
<ul style="list-style-type: none">Delivered components for <i>West Gate Freeway</i> (precast noise walls, RRC barriers) to VicRoads design standardsPrepared lift plans for precast panel installation and carried out post-installation inspectionsDesigned structural elements including beams, columns, footings, and slabs for residential and commercial structuresConducted over 100 inspections and produced remedial strategies for community and residential assetsDesigned stormwater and OSD systems and prepared technical drawings and reports.	
Graduate Civil Engineer	06/2020 – 10/2021
Structcom Consulting Engineers, Caulfield, VIC	
<ul style="list-style-type: none">Supported structural design and drafting for community centres, pavilions, courts and public transport assets.Coordinated approvals with council officers & developers; organised land surveys, Geotech, DBYD and certifications.Performed asset inspections and recommended rectification works.Drafted floor plans, connection details, and elevations for residential project	

Education

Master of Engineering Science (Structural Engineering)	(2019 – 2021)
Swinburne University of Technology, VIC	
Bachelor of Civil Engineering	(2014 – 2018)
University of Pune, India	

Certifications & Licenses

<ul style="list-style-type: none">Construction Induction Card (White Card)Working at Heights TrainingMental Health First AiderPractical Application of Generative AI for Project ManagersVictorian Driver's License (Class C)

Memberships

- Engineers Australia (*MIEAust*) – NER Registration in progress
- Project Management Institute (*PMI*) – Working towards PMP certification

Technical Skills

- **Project Management & Reporting:** MS Project, P6, MS Office Suite, Procore, Oracle NetSuite, IPM
- **Design & Drafting:** AutoCAD 2D, Civil 3D/MAP 3D, 12d, Bluebeam, Sketch Up
- **Structural Analysis:** SpaceGass, Structural Toolkit, Microstran, MS Tower, RAPT, Inducta
- **Standards & Compliances:** NCC, Australian Standards, VicRoads

VISA Status

Australian Permanent Resident

Reference

Available On Request

Mr. Ganesh R. Kalal

Phone: 0424 121 941 | Email: ganesh.r.kalal24@gmail.com | LinkedIn: [Ganesh Kalal](#) | Add: Melbourne, VIC

❖ CAREER HIGHLIGHT:

Project Engineer with experience in construction, demolition, remediation, and infrastructure projects across Tier 1 & 2 companies. Skilled in structural design, site supervision, and quality assurance, ensuring safe and efficient project execution. Strong knowledge of Australian standards, construction sequencing, and compliance requirements for above-ground and below-ground structures.

❖ EDUCATION:

- **Master of Engineering Science (Structural Engineering)** July 2019 – July 2021
Swinburne University of Technology.
Hawthorn, Victoria, Australia.
- **Bachelor of Engineering (Civil Engineering).** June 2014 – June 2018
University of Pune,
Maharashtra, India.

❖ PROFESSIONAL EXPERIENCE

Project Engineer – Structures (FIFO) Liberty Industrial Rio Tinto Gove Operations Bauxite Refinery Closure Project Gove, Northern Territory, Australia	Feb 2024 – PRESENT
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Key Achievements :

- Successfully carried out the *biggest controlled explosive demolition in the Southern Hemisphere* ensuring 100% safety compliance.
- Introduced GPS-based topographic surveys along with ariel drone topographic survey by drone cameras for remediation of earthworks, improving accuracy by 25%.
- Led aerial drone inspections, enhancing efficiency for high steel structure's assessments.

Responsibilities :

- Carried out planning and construction of RCC box culverts for sea water channel.
- Assessed pre-weakening of steel/concrete structures for controlled demolition
- Performed structural design and analysis of heavy industrial structures.
- Prepare structural engineering reports and technical drawings.
- Review structural drawings and reports from subcontractors.
- Performed pre-weakening assessments for safe demolition.
- Drafted structural drawings, SWPs, and ITPs, management plans ensuring safety compliance and client approval. Contributed to MDR submissions for project area handover.
- Liaise with subcontractors for progress monitoring, managing payments & invoicing.
- Assessed bearing capacities of soil for cranes and heavy equipment.
- Conducted structural inspections as per AS4100, AS4324.1, and AS3600.
- Carry weekly progress meetings with clients and subcontractors and document progress reports by communicating with all departments of the project team.

Challenges:

- *Safety risks in demolition* → Developed risk-based quality management plans & emergency rescue plans
- *Procurement challenges in a remote location* → Streamlined equipment and material procurement by implementing advance planning, supplier coordination, and contingency strategies to avoid project disruptions

- *Old & complex steel structure inspections* → Utilized drone cameras to enhance safety and reduce manual inspection.

Structural Engineer Indara Digital Infrastructures Consulting Engineers - Telecom Structures Melbourne, Victoria	April 2023 – Feb 2024
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Key Achievements :

- Designed steel headframes for telecom structures, ensuring compliance with AS4100 & AS1170.2.
- Conducted safety audits for remote telecom infrastructures, identifying risks and implementing remedial actions.
- Improved documentation efficiency, reducing reporting time to client by 30%.

Responsibilities :

- Designed steel/concrete pole headframes for telecom ancillaries.
- Performed structural safety audits for towers and rooftops.
- Conducted site inspections ensuring compliance with safety regulations.
- Managed site visit reports, geotechnical surveys, and certifications.
- Assisted in project scheduling and cost management.
- Assisted in cost-effective project planning, minimizing delays and optimizing resources.

Challenges :

- Remote site inspections & audits → Developed advance planning strategies.
- Multi-site inspections → Implemented efficient scheduling & reporting
- Ensuring regulatory documentation accuracy → Introduced structured templates & tracking.

Graduate Structural Engineer Clive Steele Partners Consulting Engineers – Residential & Commercial Clayton, Victoria	Nov 2021 – March 2023
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Key Achievements :

- Led site execution for 100+ projects, ensuring on-time delivery and compliance.
- Reduced approval timelines by 20% through streamlined documentation.
- Designed and reviewed structural elements (roof, floor framing, foundations) per AS4100 & AS1170.2.
- Coordinated with councils on government projects, ensuring seamless approvals.

Responsibilities :

- Supervised site activities, ensuring quality and safety compliance.
- Managed subcontractors and suppliers, overseeing procurement and scheduling.
- Performed site inspections and resolved structural and civil issues.
- Prepared structural design documents, shop drawings, and compliance reports.
- Assisted in design and analysis of roof, floor framing, and foundations using Microstran, Structural Toolkit, and Space Gass.

Challenges :

- Coordinating multiple teams → Improved tracking and reporting for smoother workflows.
- Urgent on-site design modifications → Enabled real-time structural adjustments.
- Structural stability concerns → Conducted on-site verifications and adjustments.

❖ SOFTWARE SKILLS: -

- MS Project
- AutoCAD 2D
- AutoCAD Civil 3D
- Revit
- Microsoft Office Suite
- Bluebeam
- Space Gass
- Structural Toolkit

❖ PROFESSIONAL MEMBERSHIP: -

- Engineers Australia
- The Institute of Structural Engineers
- Concrete Institute of Australia
- Australian Institute of Project Management

❖ CERTIFICATIONS & LICENCE: -

- Construction Induction Card
- Australian Driver's License
- Asbestos Safety Training
- Working At Height Training

❖ REFERENCE: - Available on request

Mr. GANESH RAJENDRA KALAL
(Civil Structural Engineer)
<https://www.linkedin.com/in/ganesh-kalal/>

Email: ganesh.r.kalal24@gmail.com
Phone: 0424121941
Add: 6/32 Holloway Street,
Ormond, Vic, 3204

❖ CAREER HIGHLIGHT:

Structural Engineer with experience in Structural design and drafting of residential, commercial and infrastructure buildings. Experience in site supervision, construction works, prestress and precast construction projects. Knowledge of construction methods and sequences in structures above or below ground. I am actively looking to obtain a full-time engineering role within a civil engineering company.

❖ EDUCATION: -

- **Master of Engineering Science (Structural Engineering)**

Swinburne University of Technology.
Hawthorn, Victoria, Australia.

July 2019 – July 2021

- **Bachelor of Engineering (Civil Engineering).**

University of Pune,
Maharashtra, India.

June 2014 – June 2018

❖ PROFESSIONAL EXPERIENCE

Graduate Structural Engineer

April 2023 – Present

Indara Pty. Ltd.

Structel Engineers – Telecom Structures

Melbourne, Victoria, Australia

- Performing structural design of new proposed steel headframes for steel or concrete pole for telecom ancillaries.
- Carrying out structural and safety assessment of existing telecom structures such as steel/concrete pole, lattice towers and rooftops.
- Performing site visits and inspection with senior engineers for ongoing telecom tower construction site, carrying out health and safety assessment and documenting inspection reports.
- Assisting senior engineers and clients in project scheduling as well as cost management activities.
- Handling site visit reports, geotechnical survey and respective structural certifications for particular sites.
- Carrying out weekly meetings with seniors engineers, clients for briefing over project progress and reporting
- Ensured the proper documentation of field changes are captured and rectified.

Graduate Structural Engineer / Draftperson**Nov 2021 – March 2023****Clive Steele Partners Pty. Ltd.
Consulting Engineers – Structural & Civil
Clayton, Victoria, Australia**

- Carried out site inspections and prepared investigation reports on structural damage and engineering solutions for new as well as existing structures.
- Documented Structural design certificates, Steel design shop drawings, Structural and civil drawings for Preliminary, Tender and Building Permit issues.
- Solved ongoing site structural framing or civil engineering queries by the architect.
- Prepared project progress and scheduling reports arranged clients meeting and briefed architects or clients about project progress.
- Designed and analyzed roof & floor framing elements such as Rafters, Joists, Bearers, Purlin, Ridge and floor Beams, Balustrade, Stairs etc. by hand computation using first principles as well as by design software such as Microstran, Structural toolkit and Space gass.
- Performed Design, Analysis of structural foundations such as Raft Slab, Waffle Slab, Mass concrete and reinforced concrete Pad and Bored Pier Footings, Suspended One-Way and Two-way slab, Infill slab for garage etc

Civil Structural Engineer**Dec 2019 - Sept 2021****Structcom Consulting Engineers Pty.Ltd.
Caulfield North, Victoria, Australia**

- Civil drafting of architectural drawings
- Analysis of geotechnical investigation reports for the design of foundations.
- Designed stormwater drainage system with respective local council requirements.
- Preparation of framing plan for the roof and upper floors achieving proper load transfer to footing plan.
- Conducted various site inspections with senior structural engineers to assess the damaged structures and subsequently proposed rectification to improve the structural integrity, such as, facade structure, roof framing, wall cracking of various commercial and residential structures.
- Handled project inspection reports, and document tracking, dial before you dig services, project documentation, on- site project visits.
- Design of each structural element using Spread Sheets and Structural Toolkit.

Civil Site Engineer**Feb 2019 – May 2019****Tata Construction Projects Pty. Ltd.
Mumbai Metro Line 4, Thane, India**

- Concrete quality inspection by temperature and slump cone testing of every batch.
- Detail checking of various geometrical parameters of as dimensions, straightness, and squareness as per issued for construction drawings.
- Detail checking reinforcement steel as per issued drawings as well as per the detailing requirements by Indian standards.
- Inspected safe installation of bearings, Pre-cast headstock and bridge deck.
- Ensured quality of work was as per project demands.
- Reported site progress to Project Manager and created monthly progress reports.

- Inspected bored piling, pile cap excavation work and carried out the geotechnical investigation.
- Carried out the placement of steel mold for steel reinforcement of pier and concrete pouring for piers by boom placer.
- Conducted Dynamic Load Testing (DLT) to assess pile load capacity.
- Performed Pile Integrity Test (PIT) to assess structural integrity of cast piles.
- Ensured correct pile bore hole depth by chain sounding method.
- Prepared bar bending scheduled of steel reinforcements.

❖ SOFTWARE SKILLS: -

- | | | | | |
|--------------|--------------------|--------------|----------------------|-------------|
| ➤ MS Project | ➤ Microsoft office | ➤ Sketch Up | ➤ AutoCAD 2D | ➤ Inducta |
| ➤ RAFT | ➤ Space Gass | ➤ Microstran | ➤ Structural Toolkit | ➤ STADD Pro |

❖ PROFESSIONAL MEMBERSHIP: -

- | | |
|--|---|
| • Engineers Australia | • The Institute of Structural Engineers |
| • Australian Institute of Project Management | • Concrete Institute of Australia. |

❖ CERTIFICATIONS & LICENSES

- Construction Induction card
- Australian Driving license (VIC)
- Asbestos Safety Training

❖ PERSONNEL ATTRIBUTES: -

Leadership Skills

- Ability to build and maintain a strong and collaborative environment within the group during university education.
- Spearheaded cricket team in the state-level tournament and won the trophy while completing bachelor's degree.

Hard Worker

- Worked under high pressure during internship and responded to change requests and emergency callouts.
- Drove team success by completing work quickly and precisely while completing University Projects

Time Management

- Prioritised the work while following strict deadlines and performed quick resolution for queries while working for Clive Steele Partners Consulting Engineers
- Stayed organised by maintaining an up-to-date calendar and documents for final year research project at Swinburne University of Technology

❖ REFERENCE: - Available on request

Ganesh Kalal

Structural Engineer

 ganesh.r.kalal24@gmail.com

 0424 121 941

 Melbourne, VIC

 linkedin.com/in/ganesh-kalal

PROFESSIONAL SUMMARY

Structural Engineer with 4+ year's experience delivering large scale construction, telecom, structural, demolition, remediation, and Infrastructure projects for Tier 1 & 2 contractors in Australia and internationally. Strong track record in structure design, site supervision, project programming, cost and procurement management, quality and safety leadership. Experienced in managing complex packages, resolving technical issues, and improving project outcomes through innovation and collaboration. Committed to integrity, excellence, and supporting team success.

KEY STRENGTHS

- Structural engineering expertise in **design, analysis, and inspection** of steel and concrete structures, with strong knowledge of **AS4100, AS3600 ,AS1170**.
- Telecom infrastructure experience including **tower safety audits, structural assessments, and steel headframe design** for remote and urban sites.
- Proven delivery of **high value (\$100M+)** and **complex projects**, including the **largest controlled explosive demolition in the Southern Hemisphere**, ensuring 100% safety compliance.
- Skilled in **value engineering, contractor coordination, and risk/quality management**, with experience mentoring graduate engineers and leading multidisciplinary teams.

TECHNICAL SKILLS

Project/Construction Programming

(MS Office, MS Project, Power BI)

Structural Analysis/Design

(MS Tower, Microstran, Space Gass, Structural Toolkit)

Drafting/BIM

(AutoCAD, Civil 3D, Sketch Up, Blue Beam)

Digital engineering

Drone/GPS surveying, Digital reporting

PROFESSIONAL EXPERIENCE

05/2025 – Present

Rio Tinto Mining,

Bauxite Refinery Closure
Project, Gove, NT

Project Engineer-Structures (FIFO)

Liberty Industrial

- Assessed pre-weakening of steel/concrete structures for controlled explosive & mechanical demolition.
- Performed structural design and analysis of heavy industrial structures such as reclaimers, gantry girders, silos etc. as per AS4100, AS4324.1, and AS3600
- Prepared structural engineering reports and technical drawings.
- Conducted structural inspections for damaged industrial structures.
- Reviewed structural drawings and reports from subcontractors.
- Assessed bearing capacities of soil for cranes and heavy equipment
- Drafted structural drawings, SWPs, and ITPs, management plans ensuring safety compliance and client approval. Contributed to MDR submissions for project area handover.
- Liaise with subcontractors for progress monitoring, managing payments & invoicing.

04/2023 – 03/2024
Melbourne, VIC

Structural Engineer
Indara Digital Infrastructures

- Performed structural design of new proposed steel headframes for steel or concrete pole for telecom ancillaries using AS4100 for steel design and AS1170.2 for wind loading.
- Reviewed structural drawings and provided comments for drafting changes.
- Performed structural design of new and existing foundations for steel poles and lattice towers.
- Liaise with clients and contractors as required.

11/2021 – 03/2023
Clayton, VIC

Graduate Structural Engineer
Clive Steele Partners

- Supervised site works on residential and commercial buildings; ensured QA and safety compliance.
- Designed and reviewed structural framing systems (roof, floor, foundations) using Microtran, Structural Toolkit, Space Gass.
- Liaised with councils for permit approvals; reduced approval cycles by 20% through improved documentation.
- Provided input on temporary works including formwork detailing, access scaffolding, and construction sequence planning for structural framing.

10/2018 – 07/2019
Mumbai Metro Line 4,
Thane, India

Graduate Site Engineer

Tata Construction Projects

- Conducted quality assurance for concrete and geotechnical works; supervised tunnel operations and bored piling activities.
- Managed safety checks, structural inspections, and coordinated with geotechnical teams during excavation and construction.
- Delivered detailed reports on construction progress
- **Conducted Dynamic Load Testing (DLT)** to evaluate the load bearing capacity of piles.
- **Performed Pile Integrity Testing (PIT)** to assess the structural soundness of cast-in-situ piles.

EDUCATION

2019 – 2021
Hawthorn, VIC

Master of Engineering Science (Structural Engineering)
Swinburne University of Technology

2014 – 2018
Pune, India

Bachelor of Civil Engineering
University of Pune, India

PROFESSIONAL MEMBERSHIPS

Engineers Australia

Project Management Institute

The Institute of Structural Engineers

CERTIFICATIONS & LICENCES

- Practical Application of Generative AI for Project Managers
- Working at Heights Training
- Construction Induction Card (White Card)
- Mental Health Awareness Training
- Asbestos Safety Training
- Leadership Development