



JOAS CHRISTOFAN



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[Online Profile](#)

EDUCATION

Bachelor of Science, Civil,
Major in Geotechnical
Engineering
National Taiwan University,
Taiwan ROC
January 1990

CAREER SUMMARY & KEY ATTRIBUTES

Chartered Professional Geotechnical Engineer with over 35 years of extensive experience in piling, deep excavation, earthwork construction, and land subdivision. Proven track record in managing large-scale engineering infrastructure projects, including the Coomera Connector North and Taiwan High-Speed Rail Project, with project values exceeding \$20 million. Expertise includes technical design, design reviews, tender preparation, and construction management, complemented by accreditation as a slope assessor for conducting risk assessments for DTMR and RMS. A diverse skill set and a commitment to excellence drive successful project outcomes and enhance team performance in complex engineering environments.

SKILLS

- Pile Verification & Certifications
- Ground Anchor / Soil Nail Verification & Certification
- Earthwork Inspection & Slope Risk Assessment
- Retaining Structure Inspection & Assessment
- Construction Project Management for Deep Foundations
- Highrise Building Basement & Foundation Works

WORK HISTORY

March 2025 - Current

Civil Geotechnical Consultant Pty Ltd - Geotechnical Design Site Representative,
Gold Coast, QLD

Mar 2025 - Current

Coomera Connector Central, FHHMJV (Mar 25 – Present)

Construction of second motorway from Coomera to Nerang at Gold Coast, QLD

- Piled foundation certification fully compliance with TMR requirements.
- Instrumentation monitoring installation, supervision and interpretations compliance with design requirements and TMR standards.
- Ground improvement supervision - mass soils mixing, remove & replace of soft soils for road and railway embankments.

January 2014 - February 2025

Geoinventions Consulting Services Pty Ltd - Geotechnical Design Site Representative / Geotechnical Assessor, Brisbane, QLD

- Cairns Water Security Strategy Stage 1, North QLD
- Pacific Motorway M1 upgrade – Palm Beach to Tugun, QLD
- Parkes Bypass, Parkes NSW

- Indooroopilly Roundabout upgrade, QLD
- Bruce Highway (Brisbane – Gympie), Caboolture – Bribie Island Road to Steve Irwin Way upgrade, QLD
- Coomera Connect – Shipper Drive to Helensvale Road, Coomera, QLD
- Hope Island Station – New Gold Coast Station Beenleigh to Varsity Lakes, Coomera, QLD
- New England Highway Upgrade, Bolivia Hills, NSW
- Southport Burleigh Road Upgrade, Gold Coast, QLD
- Nerang to Murwillumbah Slope Stabilisation, Murwillumbah, NSW
- Hamilton to Beckett Road Upgrade, Brisbane, QLD
- Fitzroy to Gladstone Pipeline – Shafts for pipe jacking, Rockhampton, QLD
- Gayndah to Monto Road Bridge Construction, Gayndah, QLD
- Toowoomba Range Slope Stabilisation Works, Toowoomba, QLD
- Gateway Upgrade North, Nudgee, QLD

January 2009 - December 2013

Abigroup Contractors Ltd - Senior Project Engineer, Brisbane, QLD

Caval Ridge Coal Mine Project, QLD

- Project management of mine industrial area and coal handling preparation plant.
- Geotechnical works including earthworks construction, field testing, piled foundation assessment and certification.
- Instrumentation monitoring of mines related civil infrastructure packages to comply with the safety in design requirements.

Ipswich Motorway Upgrade- Dinmore to Goodna Project, QLD

- Piled foundation certifications of all bridges, retaining structures and cuttings.
- Earthworks constructions for cut & fill embankments with stabilisation works.
- Design coordinations with designers and authority on geotechnical design packages relevant to constructability issues and safety in design.

May 2007 - December 2008

Leighton Contractors Pty Ltd - Project Engineer

Northern Access Road Project (NARP), QLD

- Proposed the type of site instrumentation monitoring, installation method as input to Geotechnical Designer, data assessment & review for the embankment construction.
- Reviewing the Geotechnical Design with different stage of embankment & bridge construction.
- Geotechnical Investigation execution.
- Optimisation of foundation design (pile abutment to preloading) in Bridge 1 & 2 abutment.
- Instrumentation installation, reading, data checking, data management, data carry & uploading.

April 2004 - July 2006

Continental Engineering Corporation - Senior Engineer, Taiwan ROC

- Preparation of Pre-Qualification tender document for National Highway Authority of India (NHAI) of highway strengthen and widening projects.
- Preparation of Technical Proposal of various projects especially in underground structure section.
- Reinstate the Completion Certificate of completed project according to the Asia Development Bank requested format.

- Feasibility study of Mumbai MRT BOOT Project.

February 2001 - March 2004

Bilfinger Berger & Continental Engineering Corporation JV - Senior Piling Engineer,
Taiwan ROC

- Design & built in excess of 5,000 nos of piles diameter ranged from 0.9m to 2.4m crossing the floodplains of central Taiwan (C260 & C270).
- Earthworks packages of 78km of cut & fill embankments, bridge abutments and tunnel portals within highly seismic active areas.
- Large-scaled field testing for piled foundation up to 50MN Osterberg cell testing.
- Design coordination of sub-structure and super-structure packages .

PROFESSIONAL QUALIFICATIONS AND MEMBERSHIPS

- MIEAust | 3670149
- CPEng | 3670149
- RPEQ | 12131
- NER | 3670149
- RIW | 20-00103758
- RMS Slope Assessor | 307

KEY PROJECT EXPERIENCE

Coomera Connect – Shipper Drive to Helensvale Road, Coomera, QLD
Mar 2023 to Sep 2025

Description of responsibilities:

- Supervised and certified pile construction (CIP) on land and in river for bridges and other structures, as well as monitor and inspect the site during construction to ensure compliance with the design requirements and TMR standards and specifications.
- Ensured geotechnical related design and construction processes comply with relevant standards, specifications, guidelines, and best practices, including quality and safety standards.

Indooroopilly Roundabout Upgrade, QLD
Feb 2024 – Oct 2024

Description of responsibilities:

- Assessed and verified the suitability of the ground for the construction of the project, including foundations, and other earth structures.
- Supervised and certified pile construction (CIP piles) for retaining walls, as well as monitor and inspect the site during construction to ensure compliance with the design requirements MRTS63(A) and specifications.
- Provided technical advice and recommendations to contractors, and other stakeholders on the construction project on the best practices for foundation design/construction, slope stability, excavation, and other ground engineering of the project.
- Ensure that the geotechnical earthworks related design and construction processes comply with relevant standards, specifications, guidelines, and best practices, including quality and safety standards.

**Pacific Motorway M1 Upgrade – Palm Beach to Tugun, QLD
Aug 2021 – Aug 2023**

Description of responsibilities:

- Assessed and verified suitability of the ground for construction, including foundations, retaining walls, and other earth structures.
- Supervise and certified pile construction (CIP and DTS piles) on land and in river for bridges and other structures, as well as monitor and inspect the site during construction to ensure compliance with the design requirements and TMR standards and specifications.
- Ensured geotechnical earthworks related design and construction processes comply with relevant standards, specifications, guidelines, and best practices, including quality and safety standards.

**Bruce Highway (Brisbane – Gympie), Caboolture – Bribie Island Road to Steve Irwin Way Upgrade,
Nov 2020 to early 2024**

Description of responsibilities:

- Assessed and verified the suitability of the ground for the construction foundations, retaining walls, and other earth structures.
- Supervised and certified pile construction (CIP and DTS piles) on land and in river for bridges and other structures, as well as monitor and inspect the site during construction to ensure compliance with the design requirements and TMR standards and specifications.
- Filed logged ground conditions, and provide recommendations for any required changes, and ensuring that the contractor implements the recommended changes comply with relevant standards, specifications, guidelines, and best practices, including quality and safety standards.

**New England Highway Upgrade, Bolivia Hills NSW
Apr 2018 - Dec 2021**

Description of responsibilities:

- Supervised and certified bored pile construction (CIP) on the slope adjacent to existing motorway fully compliance with the TfNSW standards and project specifications.
- TfNSW certified slope assessor for large-scaled slope stabilisation works with boulders removals, rock anchors installations and rockfall protection systems.
- Certified large-scaled temporary works for slope stabilisation works access and permanent maintenance track.
- Approved TfNSW geotechnical assessor for daily inspection and assessment of geotechnical works.

**Gateway Upgrade North (GUN), QLD
Jan 2016 – Jan 2019**

Description of responsibilities:

- Supervised and certified bored pile construction (CIP) on land adjacent to existing railway for bridges and other structures, as well as monitor and inspect the site during construction to ensure compliance with the design requirements of MRTS63(A).
- Performed construction phase inspection of slope excavation, scaling works and foundations for both permanent and temporary works to ensure the various ground treatment works carried out in line with the design drawings and specifications.
- Provided technical advice and recommendations on general earthworks, construction practices and slope stability to mitigate geotechnical risks, and support site team with practical and effective solutions.

- Provided independent risks assessments for problematic piled foundation structures due to latent conditions and unsuitable construction methodology.
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REFERENCES

Brett Hoffman - Project Manager | Transport of NSW

- brett.hoffman@rms.nsw.gov.au | +61 499 101 404

Tuck Fui Tsen - Design Manager | Acciona Construction Australia

- tuckfui.tsen@acciona.com | +61 424 146 325

Scott Cardow - Senior Project Engineer | Acciona Georgiou Joint Venture

- scott.cardow@ag-jv.com.au | +61 448 246 586

Darren Andrew - Project Manager | Seymour Whyte, Pacific Motorway M1 Upgrade – Palm Beach To Tugun, QLD

- darren.andrew@seymourwhyte.com.au | +61 428 605 728