



Construction QA Pty Ltd

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Hossein Ahmadi

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Managing Director and Founder

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Professional Summary

20 years of experience as Pile Testing and Analysis professional. This includes static loading test, dynamic load test, CAPWAP analysis, pile integrity evaluation, pile geotechnical design, pile constructability study and driveability analysis in Australia, Europe and the Middle East.

Main Technical Skills

- Pile Static Load Test, PDA Test, CAPWAP Analysis and Interpretation
- Pile Integrity Tests (PIT, CSL And TIP) And Damage Assessment
- Single Pile Design and Pile Group Analysis
- Pile Driveability Analysis and Hammer Selection
- Training And Mentoring Services for PDA Testing Engineers

Qualifications

- Bachelor of Civil Engineering, 2001, Amir Kabir University of Technology (Polytechnic), Tehran, Iran.
- Master of Geomechanics and Foundation, 2004, Isfahan University of Technology, Isfahan, Iran.
- Master of Business Administration, 2014, Industrial Management Institute, Tehran, Iran.

Pile Testing Certificates

- Master Level, 2018, Dynamic Measurement and Analysis Proficiency Test, issued by PDI/PDCA.
- Master Level, 2018, High Strain Dynamic Pile Testing Certificate, issued by Foundation QA.

Professional Memberships and Affiliations

- Chartered Professional Engineer, Institution of Engineers Australia, Civil Eng., 2019-current.
- Member of Deep Foundations Technical Committee at The International Society for Soil Mechanics and Geotechnical Engineering, 2019-current.
- Member of the Australian Geomechanics Society, 2018-current.
- Member of Engineers Australia (MIEAust), Civil Engineering and Leadership & Management Colleges, 2016-current.

Professional Experience

- **2023 – Present**

Managing Director and Founder, Construction QA

Hossein co-founded Construction QA in 2023 to respond properly to the increased demand for achievement of higher levels of quality in construction.

- **2020 – Present**

Group Manager and Principle Geotechnical Engineer, Pile QA Global Consultants

Hossein founded Pile QA group of global consultants in 2020 with registering his first business in Australia following with the opening of Turkish branch in Istanbul, May 2022.

- **2017 – Jan 2020**

Senior Geotechnical & Pile Testing Engineer, FSG Geotechnics and Foundations

After joining FSG in November 2017, Hossein was involved in a variety of pile testing and analysis projects including PDA test, CAPWAP analysis, pile integrity evaluation, PDM test, pile acceptance and verification, peer reviews, pile design, driveability analysis, ground vibration assessment. Hossein also assisted FSG directors in business development programs and quality management system upgrade.

- **April 2016 –2017**

Pile Test Engineer, Wagstaff Piling Pty Ltd / PILETEST

Hossein was responsible for testing and analysis of the piles for all Wagstaff Piling projects in Victoria. He was the only Pile-test engineer in Victoria office within 15 months he worked for Wagstaff and successfully conducted, analysed and reported more than 230 pile dynamic load tests as well as 120 pile integrity tests in more than 20 high profile projects.

Selected Projects

- ***Pile QA Global Consultants***

Erdemir, 1st Cargo Jetty Renewal (2022); PDA Tests and CAPWAP Analysis on Steel Tubular Piles in Zonguldak, KDZ. Ereğli, Turkey.

Neart na Gaoithe Offshore Wind Farm (2022); Pile Driveability Analysis of Steel Tubular Piles in Torness, UK.

Courseulles-sur-Mer Offshore Wind Farm (2022); Pile Driveability Analysis of Steel Tubular Piles in Calvados, France.

WWHCP – Multi Storey & Ongrade Carparks, NSW, Australia; Pile Driveability Analysis (Steel Tubular Pile).

Development of Two Gabbro Quarries & Construction of an Exporting Port with Conveyor Belts in Khatmat Malaha, Sultanate, Oman, PDA Test Supervision, CAPWAP Analysis (Steel Tubular Piles).

4 Maunsell Road, Parnell, Auckland, New Zealand; PIT analysis and pile integrity evaluation (Cast-in-situ Piles).

J-Quarry Mine Haul Rd, Emerald River Bridge, NT, Australia; Pile Driveability Analysis (Steel Tubular Pile).

Mumbai-Ahmedabad High Speed Rail Corridor (Package-C6), Vadodara, Gujarat, India; PDA Data Review and CAPWAP analysis (Cast-in-situ Piles).

Cairns Marine Precinct Early Works Package, QLD, Australia; Pile Driveability Analysis (Steel Tubular Pile).

- **FSG Geotechnics + Foundations**

Cairns Wharf Upgrade, QLD; PDA Test and CAPWAP Analysis

Level Crossing Removal, Station Street Bridge, Carrum, VIC; PDA Test, CAPWAP Analysis, PDM test, Pile Sign off, Driveability analysis (Steel Tubular Pile).

Port of Brisbane, Proposed Cruise Berth Terminal, QLD; Future Piling Works Ground Vibration Desk Study.

Yarra Walk and Burke Dock Triangle, Docklands, VIC; PDA Test, CAPWAP Analysis, PDM test, Pile Sign-off and Verification (Steel Tubular Pile).

M2VL, Gold Coast, QLD; PDA Test, CAPWAP Analysis, PDM Test, Pile Sign-off and Verification (Prestressed Concrete Piles).

Alpha Apartments, QLD; PET Analysis and Pile Integrity Evaluation (CFA Piles).

- **Wagstaff Piling / PileTest**

Citylink Tulla Widening (Multiple bridges and ramps), VIC; PDA Test, CAPWAP Analysis, Pile Integrity Test and Analysis (Precast Concrete Piles and Cast-in-situ Piles).

Caulfield to Dandenong Skyrail, VIC; PDA Test, CAPWAP Analysis, Pile Integrity Test and Analysis (Precast Concrete Piles and Cast-in-situ Piles).

Level Crossing removal, Blackburn and Heatherdale grade separations, VIC; Pile Integrity Test and Analysis (Cast-in-situ Piles).

Rod Laver Arena Refurbishment, VIC; PDA Test and CAPWAP Analysis (Precast Concrete Piles and Steel Tubular Micro-piles).

Monash Freeway Upgrade (Multiple Bridges), VIC; PDA Test and CAPWAP Analysis (Precast Concrete Piles and Steel Tubular Piles).

M80 Ring Road Bridge, VIC; PDA Test and CAPWAP Analysis (Precast Concrete Piles).

Darebin Yarra Trail Link Bridge, VIC; PDA Test and CAPWAP Analysis (Precast Concrete Piles).

Publications

- Seidel, JP and Ahmadi, H. (2020) "Considerations for design installation and testing of steel pipe piles with internal steel plates". Accepted for publication at the DFI-PFSF Piling & Ground Improvement Conference, March 2020 (postponed)

- Ghazavi, M., Ahmadi, H.A., (2008), "Time-dependent bearing capacity increase of uniformly driven tapered piles – field load test", The Sixth International Conference on Case Histories in Geotechnical Engineering, Arlington, VA, 11-16 August 2008.
- Ghazavi, M., Ahmadi, H.A., (2008), "Long-term capacity of driven non-uniform piles in cohesive soil-field load tests", The 8th International Conference on The Application of Stress Wave Theory to Piles, Lisbon, Portugal, 8-10 September 2008.