

Hossein Ahmadi *BE MSc MIEAust CPENG NER*

Mobile: 0424 557 930
Email: hossein@pileqa.com
21 Binnak Drive,
Watsonia North, VIC 3087



Professional Summary

17 year experience as Pile Testing and Analysis professional. This includes static loading tests, dynamic load tests, CAPWAP analysis, pile capacity verification, integrity evaluation, geotechnical design, constructability and driveability analysis in Australia and Middle East.

Main Technical Skills

- Practical knowledge of geotechnical engineering and foundations
- 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

Qualifications

- Bachelor of Civil Engineering, 2001, Amir Kabir University of Technology (Tehran 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, 2017, Dynamic Measurement and Analysis Proficiency Test, issued by PDI/PDCA
- (Refer to <http://www.pdaproficiencyttest.com> for more information and ranking)
- Advanced Signatory Level, 2007, High Strain Dynamic Pile Testing Certificate, issued by FoundationQA

Professional Memberships and Affiliations

- Chartered Professional Engineer, Institution of Engineers Australia, Civil Engineering, 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

Jan 2020- Present

**Principal Geotechnical & Pile Testing Engineer / Business Owner
Pile QA**

Hossein founded Pile QA as an internet based global business model to provide professional assistance to piling projects. He is forming a network of piling professionals around the world who could effectively provide on time and high level technical assistance to piling projects in all continents. Pile geotechnical design, constructability advise, test analysis, training and pile sign-off are main services provided by Pile QA under Hossein's leadership.

Nov 2017- Jan 2020

**Senior Geotechnical & Pile Testing Engineer,
FSG Geotechnics and Foundations**

Since joining FSG in Nov 2017, Hossein has been involved in different 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 programmes and quality management system upgrade.

April 2016 – July 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 Piletest 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.

2007-2016

**Managing Director,
IBSA Consulting Engineers**

IBSA was a consulting firm specialising in pile design, test and constructability analysis. As managing director, Hossein provided direction and leadership to pile design and testing team and had overall accountability for quality, financial performance and strategic direction of IBSA. Under Hossein's leadership, IBSA successfully exported engineering services to Australia and also became number one pile testing company in Iran.

2004-2007

**Head of Deep Foundations Department,
IBA Group**

Hossein joined IBA to assist with the procurement and installation of Prestressed Spun Concrete piles which were used for the first time in a project in south of Iran. He then started a new department in IBA to provide deep foundations engineering services such as pile design, constructability advice, PDA, CAPWAP analysis and integrity tests. Later, when he became head of department, Hossein managed a group of 5 engineers and successfully delivered more than 20 pile test and analysis projects.

Professional Experience

2003-2004

***Pile Design and Test Engineer,
Omran Falat***

As part of his thesis, Hossein has performed number of full size static load tests on precast tapered concrete piles to compare them with uniform piles of same average size. Omran Falat which was a leading national piling contractor, sponsored Hossein's research and provided all required equipment for driving and testing the piles. Hossein also assisted Omran Falat with few pile test and design jobs.

Selected Projects

FSG Geotechnics + Foundations

Cairns Wharf Upgrade

Client: Austral Constructions

PDA Test, CAPWAP Analysis

Level Crossing Removal, Station Street Bridge, Carrum, VIC

Client: Fitzgerald Construction

PDA Test, CAPWAP Analysis, PDM test, Pile Sign off, Driveability analysis (Steel Tubes)

Port of Brisbane, Proposed Cruise Berth Terminal, QLD

Client: Port of Brisbane

Future Piling Works Ground Vibration Desk Study

Yarra Walk and Burke Dock Triangle, Docklands, VIC

Client: Lend Lease, Fitzgerald Construction

PDA Test, CAPWAP Analysis, PDM test, Pile Sign-off and Verification (Steel Pipe Piles)

M2VL, Gold Coast, QLD

Client: Caporn Piling, Seymour Whyte Group

PDA Test, CAPWAP Analysis, PDM Test, Pile Sign-off and Verification (Prestressed Concrete Piles)

Alpha Apartments, Qld

Client: ASP Piling and Australian Dewatering Systems

PET analysis and pile integrity evaluation (CFA Piles)

Wagstaff Piling / Piletest

Citylink Tulla Widening (Multiple bridges and ramps)

PDA Test, CAPWAP Analysis, Pile Integrity Test and Analysis (Precast Concrete Piles and Bored Piles)

Caulfield to Dandenong Skyrail

PDA Test, CAPWAP Analysis, Pile Integrity Test and Analysis (Precast Concrete Piles and Bored Piles)

Level Crossing removal, Blackburn and Heatherdale grade separations, VIC

Pile Integrity Test and Analysis (Bored Piles)

Selected Projects

Rod Laver Arena Refurbishment, VIC
PDA Test and CAPWAP Analysis (Precast Concrete Piles and steel tube Micropiles)

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

IBSA Consulting Engineers

Genaveh Combined Cycle Powerplant
PDA Test, CAPWAP Analysis, Static compressive and lateral load tests, Pile Integrity Test

IRAN LNG onshore and offshore facilities
Pile design, PDA Test, CAPWAP Analysis (Steel Pipe Piles and Bored Piles)

Arvandan Oil Tanks, Khuzestan, Iran
PDA Test, CAPWAP Analysis, Lateral Load Test (Precast Concrete Piles)

F18 Offshore Oil Platform
PDA Test and CAPWAP Analysis (Steel Pipe Piles)

MAPNA Pars Wind Farm Turbine Platform
Foundation and Pile Design

Salman Farsi Petrochemical Complex
PDA Test and CAPWAP Analysis (Precast Concrete Piles)

Shiraz International Airport Terminal
Pile Driveability Analysis and Constructability Advice

IBA Group

Imam Khomeini 150000 tons Grain Loading Jetty
Pile Driveability Analysis, PDA Test and CAPWAP Analysis, Technical support to sales

Khorramshahr Port
Pile Integrity Test, PDA Test and CAPWAP Analysis

Hendijan Fishery Jetty
PDA Test and CAPWAP Analysis

Aftab Port
PDA Test and CAPWAP Analysis

Omran Falat

Bandar Imam Bridge
Static Load Testing - Technical documentation and design of Driven-Cast in place piles

Publications

- 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.