

Curriculum Vitae

Name:

Dion Denes



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Areas of expertise:

Geotechnical engineering, foundation engineering, high strain dynamic (PDA), low strain integrity pile testing (PIT), CAPWAP analysis, Cross Hole Sonic Logging (CSL), Static testing (compression, tension and lateral), Driveability Review and Bearing Graphs (GRLWEAP), Geological site models, site investigations, soil and rock logging, core logging, construction management and review, cost planning and assessment.

Qualifications:

-)] Bachelor of Engineering (B.E.), Geological Engineering with Honours, 1998 –2001. RMIT University, Melbourne.
-)] Master of Engineering Science (MEngSc), Geotechnical Engineering and Engineering Geology, 2012-2015. University of NSW (UNSW). Subjects: Fundamentals, Slope Instability, Rock Engineering, Geotechnical Models, Dams, Advanced Foundation Engineering, Geomechanics and a Specialists Topic – Minor Thesis (Paper 2016)
-)] Dynamic Measurement and Analysis Proficiency Test (Score-83%) – Advanced Level.

Papers:

-)] Denes, D., 2016. Observing friction fatigue on calcareous material. Proceedings, 5th International Conference of Geotechnical and Geophysical Site Characterisation.
-)] Damen, R., Denes, D., 2017. Observing friction fatigue using high strain dynamic pile testing. Piled foundations & ground improvement technology for the modern building and infrastructure sector. DFI.
-)] Damen, R., Denes, D., 2017. Improving site specific modified driving formula using high frequency displacement monitoring. Proc 20th NZGS Geotechnical Symposium. Napier.

Career Summary:

Dion began his career working part-time as an engineering geologist for Paul Williams and Associates during his last 2 years of study. He undertook soil and rock investigations for lightly loaded and small commercial structures which included feature surveys. Dion also assisted in Land Capability Assessments (LCA), which involved *in situ* permeability testing of the vadose zone. A major component of LCA is to investigate and map large areas in to different soil and rock units. After completing University, Dion continued to work with Paul Williams until 2003, when he joined BFP consultants.

Whilst at BFP, Dion worked at Century Mine, a large metalliferous mine north of Mt. Isa, on a FIFO contract. His duties included: geological/geotechnical mapping and data entering, producing geological maps, daily geotechnical and safety inspections, analysis and reporting on geotechnical structures for all berms and batters, monitoring for instability of pit walls with survey and daily planning meetings. Also, while undertaking the daily and weekly duties, Dion implemented a QA system and managed the installation of 35m long cable bolts to stiffen a large sloping wall.

Dion then joined Wagstaff Piling, a national piling contractor. For a combined period of 6 years, he commenced in tendering and design, before moving into the field as a site engineer, eventually progressing to

geotechnical/project engineer. Dion was involved in bored pile socket logging for a number of projects to ensure the material drilled is consistent with geological maps/reports and design parameters. Dion also undertook the pile dynamic testing (PDA) which eventually led to him taking on management of Wagstaff's PDA testing across Victoria.

Dion also worked in London with Cementation Foundation Skanska, one of the largest piling companies in the UK. His role was area engineer based on site, with duties including: overseeing the construction work for building foundations, contract administration, programming and time control, weekly cost analysis, liaison with clients throughout all stages of the project undertaking verification on all large diameter bored pile using down the hole cameras.

Dion joined Foundation Specialist Group in 2011. Through being involved with a number of significant and challenging projects, as well as gaining experience in a range of engineering fields, he has developed a sound understanding of construction management and a strong appreciation of both the commercial and technical aspects of a wide range of issues that arise in the foundation engineering field.

Employment History:

2011 - Current:

Senior Geotechnical / Testing Engineer – Foundation Specialists, Melbourne

Testing engineer involved in high and low strain pile testing (PDA and PIT) for steel,-concrete-timber, CSL testing, GRLWEAP analysis, CAPWAP analysis, pile installation review and analysis, reporting, soil and rock logging, onsite assistance with piling issues. Preparation of site geological models to assist with potential design issues.

2003-2006 and 2008-2011:

Geotechnical / Testing Engineer - Wagstaff Piling Pty Ltd, Melbourne

Site/ Project engineering and management for a variety of foundation construction projects, involving precast and steel driven piles, bored piles, Continuous Flight Auger (CFA) Piles, sheet piles and retaining piles. High and low strain pile testing (PDA and PIT) for all types of piles. Soil and rock logging for bored piles.

2007-2008:

Area Engineer - Cementations Foundations Skanska, London, UK

Area engineer for a variety of foundation construction projects located in central London. Piling techniques included Rotary Bored Piles and Continuous Flight Auger Piles.

2002-2003:

Engineering Geologist - BFP Consultants Pty Ltd, Melbourne

Geological consultant based in Melbourne working on a fly in/ fly out roster to Century Mine in North Central Queensland. Onsite geology mapping / geotechnical engineer undertaking all daily and weekly tasks which includes geology/structural mapping, inspections, ground instability reviews, wall monitoring and cable bolting.

2000-2002:

Engineering Geologists - Paul Williams & Associates Pty Ltd, Sunbury, Victoria

Planning, execution and reporting of geotechnical site investigation works and land capability assessments, including detailed soil logging and sampling, *in situ* permeability testing, feature surveying using a total surveying station, laboratory testing, map production and report writing. Assisting with geology / soil mapping.

Software Experience:

-) PDI Software – PDA, PDA8G, CAPWAP, CSL, PIT
-) Pile Driving Monitor (PDM)
-) Plaxis – 2D and 3D
-) Surfer
-) Map Info
-) RocScience Software – Dips, Unwedge, RocLab
-) PYGMY
-) Microsoft Office