

## Martin Dietrich Larisch

Civil Engineer (German University degree)  
MIE (Aust) CPEng, RPEQ (9565), NPER

DOB 4<sup>th</sup> February 1972  
German & Australian Citizenship

8 Capparis Street  
North Lakes QLD 4509, Australia  
(07) 3491 6522 or 0419 799 701  
martin.larisch@yahoo.com.au



## Career Objective

Taking on a challenging technical role in senior management with a leading organisation in the field of geotechnical engineering or piling. Utilising and applying my present experience and knowledge; developing and strengthening my engineering, technical, geotechnical, research and management skills. Making use of hands-on involvement, leadership, team management and strong work ethic to achieve outstanding results and setting new industry standards.

## Executive Summary

- Ongoing **part time PhD** at University of Queensland (Brisbane, Australia);  
Research topic: *“Behaviour of cohesive, fine grained soils during piling auger installation”*
- Over **10 yrs international experience** in piling and soil improvement industry
  - Business development, estimation, design and project management
  - Piling techniques: large diameter bored piles, CFA, auger displacement, driven piles, D-walls, marine piles, false work, cluster drilling
  - Soil improvement: jet grouting, soil mixing, CMC, stone columns, wick drains
  - Estimation of projects up to \$30M
  - Project management of projects up to \$13M
  - Experience in executing subcontracts, joint ventures and sub alliances
  - Professional development program supervision
- Co-author and co-initiator of CIA guideline **“Tremie Concrete for Deep Foundations”**
- Authored and co-authored several **technical papers** for conferences and journals
- Experienced **presenter** and **workshop facilitator**

## Employment Summary

Piling Contractors Pty Ltd, Brisbane, Australia	Senior Project Manager	Oct 2007 – ongoing
Avopiling Pty Ltd, Sydney, Australia	Project Manager	Feb 2006 - Aug 2007
BVT Dyniv GmbH (JV Franki / Menard), Germany	Construction Manager	Jan 2005 - Oct 2005
Franki Grundbau GmbH, Germany	Project Manager	May 2001 - Dec 2004

## Professional Experience / Career Achievements

Since Oct 2007

### Senior Project Manager

#### Piling Contractors Pty Ltd, Brisbane, Australia

*(Piling Contractors Pty Ltd is part of the worldwide operating Keller Group)  
Australia's biggest specialist contractor and market leader for foundation engineering solutions including diaphragm walls, bored piles, CFA piles, pre-stressed concrete driven piles, auger displacement piles, cluster drilling and marine piles using false work and barges.*

#### Duties:

- Tendering, estimating, system selection, concept design, contract negotiations and project management of foundation, basement and retaining wall projects with overall responsibility for technical & commercial outcome of projects
- Involvement in research & development projects and activities
- Contract, subcontractor and supplier negotiations
- Safety and quality responsibility for piling projects
- Pile testing and analysis (PDA, CAPWAP) for the Queensland Branch
- Representing the company on conferences as speaker & presenter
- Design, implementation and supervision of a professional development program to guide engineers to Chartered Status

#### Achievement / Selected Project References:

- Jan 2011 – Jun 2011 (Estimator for Keller New Zealand)  
Sub Alliance estimator for piling and D-wall works for the Waterview Connection Project in Auckland, New Zealand.  
Systems: Bored piles (Ø600-2400mm), Diaphragm Wall, False work installation and removal and pile testing (Osterberg cell)  
Value: \$30M (piling and D-wall package of Sub Alliance)
- Mar 2010 – Jun 2011 (Sub Alliance Manager)  
Sub alliance tendering, negotiation & execution process, construction and project management for the Banora Point Upgrade Project, NSW Australia. Internal implementation of cluster drill technology.  
Resources: 35 staff & 10 major plant items (piling rigs & cranes)  
System: Bored piles under bentonite and bored piles using cluster hammers to penetrate extremely high strength rock  
Value: \$13M (Sub Alliance)  
Quantity: Bored piles (cluster drill): 198 nos., L=15-25m, Ø1200mm  
Bored piles (bentonite): 26 nos., L=35-55m, Ø1200mm
- June 2009 – March 2010 (Project Management)  
Project Management, tendering and subcontract negotiations of piling works for the Airport Link Project, Brisbane, QLD, Australia  
Resources: 20 staff & 4 major plant items (piling rigs & cranes)  
System: Pre-stressed driven piles, large Ø bored piles and temporary steel bridges (false work)  
Value: \$6.0M  
Quantity: Bored piles: 80 piles, L=15-25m, Ø900-1800mm  
Temp. Bridge: 120 steel piles, 405m & 900T of steel for false work (redesigned & bolted system)  
PSC Piles: 120 piles, L=18-236m, Ø550mm

## Professional Experience / Career Achievements (continued)

- August 2008 – June 2009 (Project Management D&C Project)  
Design & construction of 300m of temporary steel bridge as working platform for the installation of 22 bored piles for a railway bridge crossing the St. Lawrence Creek, Central QLD, Australia  
Resources: 10 staff & 4 major plant items (piling rigs & cranes)  
System: False work bridge & bored piles with permanent liners  
Value: \$6.9M  
Quantity: Temp. Bridge: 90 steel piles, 300m & 600T of steel for new false work  
Bored piles: 22 piles, L=15-25m, Ø1600mm
  
- January 2008 – September 2008 (Project Management D&C Project)  
Foundation piles for 77 storey SOUL Apartment Building, Surfers Paradise, QLD, Australia  
Resources: 15 staff & 4 major plant items (piling rigs & cranes)  
Systems: Large Ø bored piles under bentonite for high loaded tower piles, CFA piles to support five storey retail area  
Value: \$6.5M  
Quantity: Bored piles: 44 piles, L=40m, Ø1500- 2200mm  
CFA piles: 260 piles, L=8-22m, Ø600mm & 900mm

Feb 2006 – Aug 2007 **Project Manager**

**Avopiling Pty Ltd, Sydney, Australia**

*One of Australia's leading Piling & Drilling contractor, specialist for bored piles, CFA piles, deep soil mixing and jet grouting*

### **Duties:**

- tendering / estimating, system selection, design and project management of foundation, basement and retaining wall projects with overall responsibility for technical and financial outcome of projects
- specialisation on jet grouting and deep soil mixing technologies

### **Achievement / Selected Project References:**

- May 2007 – August 2007 (Project Management D&C Project)  
Basement construction for New Government Office, Penrith, NSW, Australia (Design & Construction Project)  
Resources: 10 staff & 4 major plant items (piling rigs & cranes)  
Systems: secant pile wall with CFA piles, temporary ground anchors  
Value: \$1.3M  
Quantity: CFA piles: 360 piles, L=11-12m, Ø600mm  
Anchors: 250 anchors, L=12-18m
  
- June 2006 – August 2007 (Tendering & Management of D&C Project)  
Remediation & Rehabilitation works for Cringila Public School, Wollongong, NSW, Australia (extinguish subsurface coal combustion)  
Resources: 12 staff & 4 major plant items (piling rigs & batching plant)  
System: Cut-off wall to isolate combustion using deep soil mixing, Seal wall below obstructions with jet grouting technology, Extinguish combustion by injection of liquid nitrogen, Capping surface area (8,000m<sup>2</sup>) to avoid access of oxygen  
Value: \$ 2.0M

## Professional Experience / Career Achievements (continued)

Jan 2005 – Oct 2005 **Construction Manager**

**BVT Dyniv GmbH, Hamburg, Germany**

*(jointly owned by the companies Franki Grundbau GmbH of Germany & Ménard Soltraitemment of France)*

*Specialist for different soil improvement systems, international market leader for CMC (Controlled Modulus Columns) & Dynamic Compaction*

**Duties:**

- overall construction site & operations management
- administration of personnel & trainees
- implementation of CMC column technology in Germany on site
- site crews, technical units & equipment disposed from France
- professional communication on site was German, French & English

**Achievement / Selected Project References:**

- January 2005 – October 2005 (Construction Manager)  
Foundation of ramp for motorway project BAB 281, Bremen, Germany  
**1<sup>st</sup> CMC project in Germany**  
Resources: 10 staff & 2 piling rigs  
System: CMC (displacement piling technique)  
Value: € 2.5M  
Quantity: CMC 120,000 lm / 14,000 columns
  
- June 2005 – October 2005 (Construction Manager)  
Foundation of Logistic Centre 'Fiege', Hamburg, Germany  
Resources: 20 staff & 3 piling rigs (two shift sequences)  
System: CMC (displacement piling technique)  
Value: € 1.5M  
Quantity: CMC 60,000 lm / 10,000 columns  
Others: 2 static load tests, 4 weeks of 24 h production

May 2001 – Dec 2004 **Project Manager**

**Franki Grundbau GmbH, Oldenburg, Germany**

*German market leader for driven piles, specialist for bored displacement piles (full & partial) as well as special foundations and techniques*

**Duties:**

- technical, financial & budget planning for projects incl. customer support
- tendering / estimating, design, system selection, negotiation, contract assessment, business development, promotion, sales
- project management after award

**Achievement / Selected Project References:**

- April 2004 – May 2004 (Tendering, Design, Project Management)  
Foundation of Basketball Stadium, Oldenburg, Germany  
Resources: 6 staff & 2 piling rigs  
System: Screw shaped cast-in-place piles System Franki Atlas  
Value: € 0.5 million  
Quantity: 250 piles, L=10-12m  
Others: pile inclination 0° - 30° and contaminated soil conditions

## Professional Experience / Career Achievements (continued)

- July 2002 – Sep 2002 (Tendering, Design, Project Management)  
Factory foundation, Delmenhorst, Germany  
Resources: 12 staff & 3 stone column rigs  
System: Vibro compaction (concrete and stone columns)  
Value: € 1.0M  
Quantity: 28,000 linear meters / 4,500 columns  
Others: use of concrete instead of gravel in standard vibro compaction equipment due to settlement requirements)

## Trainee Experience (Malaysia)

- June – Sept 2000      Nehemiah Reinforced Soil SDN BHD, Kuala Lumpur, Malaysia  
*(International operating local contractor for retaining wall systems)*  
4 month preparation of final thesis, detailed analysis and modelling of Reinforced Soil (RE) Systems using FEM using Plaxis 7
- February – July 1998      Endeavour Consult SDN BHD Kuala Lumpur, Malaysia  
*(local geotechnical consultancy)*  
6 month practical training (slope stability checks and analysis, soil investigation and field testing, geotechnical design & reporting)

## Refereed Journal Papers / Publications

“High tension load transfer using bored piles for SOUL Apartments, Surfers Paradise”, Martin Larisch, AGS journal, Volume 44, 1 March 2009

## Refereed Conference Papers / Publications

“Experience with high strength concrete for the foundation of a high rise building”, Martin Larisch, 9<sup>th</sup> Symposium on High Performance Concrete, 9-12<sup>th</sup> August 2011, Rotorua, New Zealand

“New Performance Criteria for fresh Tremie Concrete”, Beckhaus, Larisch et al., Workshop "Performance-based Specifications for Concrete", 14-15<sup>th</sup> July 2011, Leipzig, Germany

“Introducing the Recommended Practice Booklet for Tremie Concrete”, Beckhaus, Larisch et al., The Concrete Institute of Australia's 25th Biennial Conference, 12-14<sup>th</sup> October 2011, Perth, Australia

“New approach for tremie concrete to be used for deep foundations”, Beckhaus, Larisch et al., International Conference on Advances in Geotechnical Engineering (ICAGE), 7-9<sup>th</sup> November 2011, Perth, Australia

## Standards / Guideline Publications

“*Tremie Concrete for Deep Foundation*”, Recommended Practice booklet to be published by the Concrete Institute of Australia in August 2011, Co-author and co-initiator

## Presentations

Ongoing                      Successful delivery of a variety of presentations at engineering functions, international conferences and workshops on piling related topics

## Advanced Training

2009 – ongoing              KELLER Australia Management Training Program  
Modular training program with 4 three day training blocks covering *leadership, commercial, strategy and customer focus* training

2004 – 2005                  Correspondence course, Open University (BE) IWW, Hagen, Germany  
*business administration intense study course*  
major field of study: marketing, strategic management and leadership

2001 – 2011                  General Training:

- geotechnical related workshops and seminars
- risk management, construction law and contract management
- safety and quality assurance workshops and seminars

## University Education

2009 – ongoing              University of Queensland, Brisbane, Australia  
*Post graduate studies, part time PhD (Civil Engineering / Geomechanics)*  
Research topic: “*Behaviour of cohesive soils during auger installation*”

1995 – 2001                  University of Applied Science Hildesheim, Germany  
*Studies of Civil Engineering, Successful graduation (Diplom Ingenieur)*  
Main Subject: International Construction / Geotechnical Engineering

## Language Skills

German                        mother tongue

English                        business fluent

French                         basics in reading, writing and verbal

## IT Skills

General                        daily use of Windows, Microsoft Office, Adobe Acrobat, MS Project

Business specific            AutoCAD13, PLAXIS 7 & ABAQUS 6.9 (FEM), CAPWAP, PDA, CATS

## Hobbies and Interests

General                        travelling, literature, NLP (certified Trainer)

Sportive                        sailing, fishing, jogging, diving, basketball

Creative                        writing, carpentry