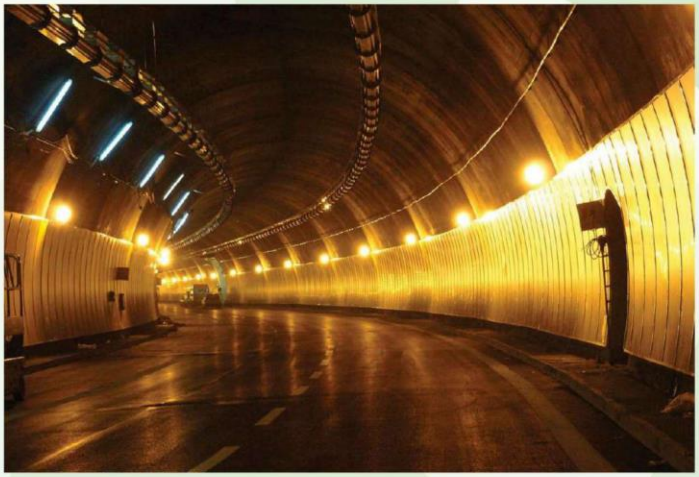








GeoAlliance

Efficiency, Economy, Excellence

GeoAlliance Consultants Pte Ltd

Capability Statement

GeoAlliance Consultants Pte Ltd

WHO WE ARE

GeoAlliance Consultants Pte Ltd is a specialist ground engineering consultancy established by a group of registered professional engineers in Singapore. Our team has wide hands-on experience in both design and supervision of civil engineering and geotechnical engineering works in Singapore and overseas. Our team members have been involved in projects on the MRT Northeast Line, MRT Circle Line, MRT Downtown Line and Marina Coastal Expressway, and Kim Chuan Sewerage Plant, Changi Outfall in each of their own capacities. Merging our skill sets, experience and resources, we endeavour to provide innovative technical solutions for geotechnical and underground space projects.

We are a professional engineering corporation licensed with Professional Engineers Board Singapore and Accredited Checking Organisation (ACO) registered with Building & Construction Authority.

WHY GeoAlliance

- Professional Engineers with PE(Civil), PE(Geo) and AC(Geo) registrations
- Experience with local building authority, international consultants and contractors
- “Can-do” attitude
- Innovative, cost-effective and practical solutions
- Efficient and excellent services
- Reliable business & project partner
- Potential integration with client’s team

WHAT WE DO

Our team has an extensive range of knowledge and experience. Professional services by GeoAlliance Consultants Pte Ltd can be provided at all stages of project implementation, including:

Planning

- Feasibility Studies
- Planning of Geotechnical Investigations
- Engineering Support for Project Tenders
- Preliminary Designs for Cost Estimates
- Value Engineering
- Risk Assessments

Statutory Submission

- PE(Civil) services
- PE(Geo) services
- AC(Geo) services
- Submissions to local authorities (BCA, PUB, LTA, JTC and NParks etc.)

Project & Construction Management

- Construction Planning and Advice
- Construction Methods and Programmes
- Qualified Person (Supervision) services
- Instrumentation & Monitoring
- Expert Witness services

Analysis and Design

- Geotechnical Interpretative Studies
- Earth Retaining Structures (ERSS or TERS)
- Geotechnical Instrumentation
- Numerical modelling (2D and 3D)
- Foundations for Buildings and Bridges
- Coastal and Offshore Foundations
- Underpinning and Strengthening of Existing Structures
- Building Damage Assessments
- Slope Stability & Stabilisation
- Ground Improvement Solutions
- Tunnelling and Pipe-Jacking
- Shafts
- Cofferdams

GeoAlliance Consultants Pte Ltd



Qualifications
BEng (Civil)
MSc (Geo)
MEng (Geo) NUS
PEng (Civil)
PEng (Geo)
AC (Geo)
CPEng (Australia)

Memberships
Sr. MIES
MTUCSS
MIEAust

Years In Industry
28 years

Er. Niu Jianxin -- Managing Director

Jianxin is a registered Specialist Professional Engineer (Geotechnical) with over 28 years of experience in civil and geotechnical engineering design and construction in Singapore, Hong Kong, China, and Australia.

He has expertise in retaining wall for deep excavation, cut and cover tunnels, bored tunnels, embankments, foundations for buildings, transmission towers and offshore structures, dams, slope stability, ground improvements, instrumentation and monitoring.

The major projects he has worked on include:

- Northeast Line Dhoby Ghaut MRT interchange station, Singapore
- Circle Line 3, Downtown Line 3, and Thomson East Coast Line, Singapore
- Marina Coast Expressway, Singapore
- Deep Tunnel Sewerage System, Changi Outfall, Singapore
- Slope Stabilization at Mount Faber Road
- Water Pipeline from Murnane Services Reservoir to Marina South and East
- Finger One - Coastal and Port Development at Tuas, Singapore
- P&G Innovation Centre (Singapore) at Biopolis Road, Singapore
- Three Gorges Dam Project, China
- City of Dreams Casino, Macau
- Link Sewer of the Strategic Tunnel Enhancement Program, Abu Dhabi
- Nam Theun 2 – CW3 Civil Works, Laos
- Newcastle Coal Export Terminal 3, NSW, Australia
  Nam Theun 2 – CW3 Civil Works, Laos



Qualifications
BEng (Civil)
MSc (Geo) NTU
PEng (Civil)
ACPE

Memberships
MGeoSS
MTUCSS

Years In Industry
16 years

Er. Chua Chin Hiang -- Senior Director

Chin Hiang is a registered Professional Engineer (Civil) with over 15 years of postgraduate experience in civil design and supervision of major infrastructure projects.

His major project experience in Singapore, Malaysia, India and Australia includes underground infrastructure works for mass rapid transit, roads, highways and port developments. Chin Hiang's recent involvement in Singapore projects includes the Circle Line, Marina Coastal Expressway and Downtown Line.

The major projects he has worked on include:

- Delhi Metro Corridor 1B, New Delhi, India
- SMART tunnels, Kuala Lumpur, Malaysia
- Kallang-Paya Lebar Expressway, Singapore
- Central Circle Line Stage 3, Singapore
- Newcastle Coal Export Terminal 3, NSW, Australia
- P&G Innovation Centre Project, Singapore
- Capitol Redevelopment Project, Singapore
- Thomson Line Mt Pleasant Station Project, Singapore
- Thomson Line Mandai Depot Earthworks Project, Singapore

GeoAlliance Consultants Pte Ltd



Er. Wee Soon Eng -- Principal

Soon Eng is a Principal with GeoAlliance Consultants Pte Ltd and has over 30 years' experience of civil and structural engineering works, including the design of structural steelworks, reinforced and pre-stressed concrete structures in buildings and bridges. He is a Professional Engineer and Accredited Checker in Singapore.

The major projects he has worked on include:

- Design of PWD's SLE Lentor Interchange (Bridge)
- Design and Supervision of Holcim Cement Silo, Singapore
- Design of LTA's North East Line Contracts C701 (new MRT depot at Hougang)
- Design of LTA C704 (Woodleigh and Serangoon MRT Stations with connecting twin bored tunnels)
- Design of LTA C711 (Harbourfront MRT Station with crossover tunnel and sidings tunnel at World Trade Centre)
- Accredited checking of Downtown Line Stage 3 Contract C9181AC3 (6 Civil Defence underground MRT stations, tunnels and shafts)
- Accredited checking of Downtown Line Stage 2 Contract C918AC (Tan Kah Kee MRT station and tunnels)
- Accredited checking of Lee Kong Chian School of Medicine, Singapore, Nanyang Technological University
- Accredited checking of Singapore Management University
- Accredited checking of Furniture Hub at Sungei Kadut, Singapore

Qualifications
BEng (Civil)
UCL, UK
PEng (Civil)
AC (Civil)
CEng (UK)

Years In Industry
30 yrs



Er. Max Goi Meng Hwee –Director

Max is a registered Professional Engineer with over 15 years of postgraduate experience in civil design and supervision of major infrastructure projects, specialising in geotechnical design and checking works.

His major project experience in Singapore and Australia includes highway construction, bridge structures, building developments and underground mass rapid transit infrastructure works.

The major projects he has worked on include:

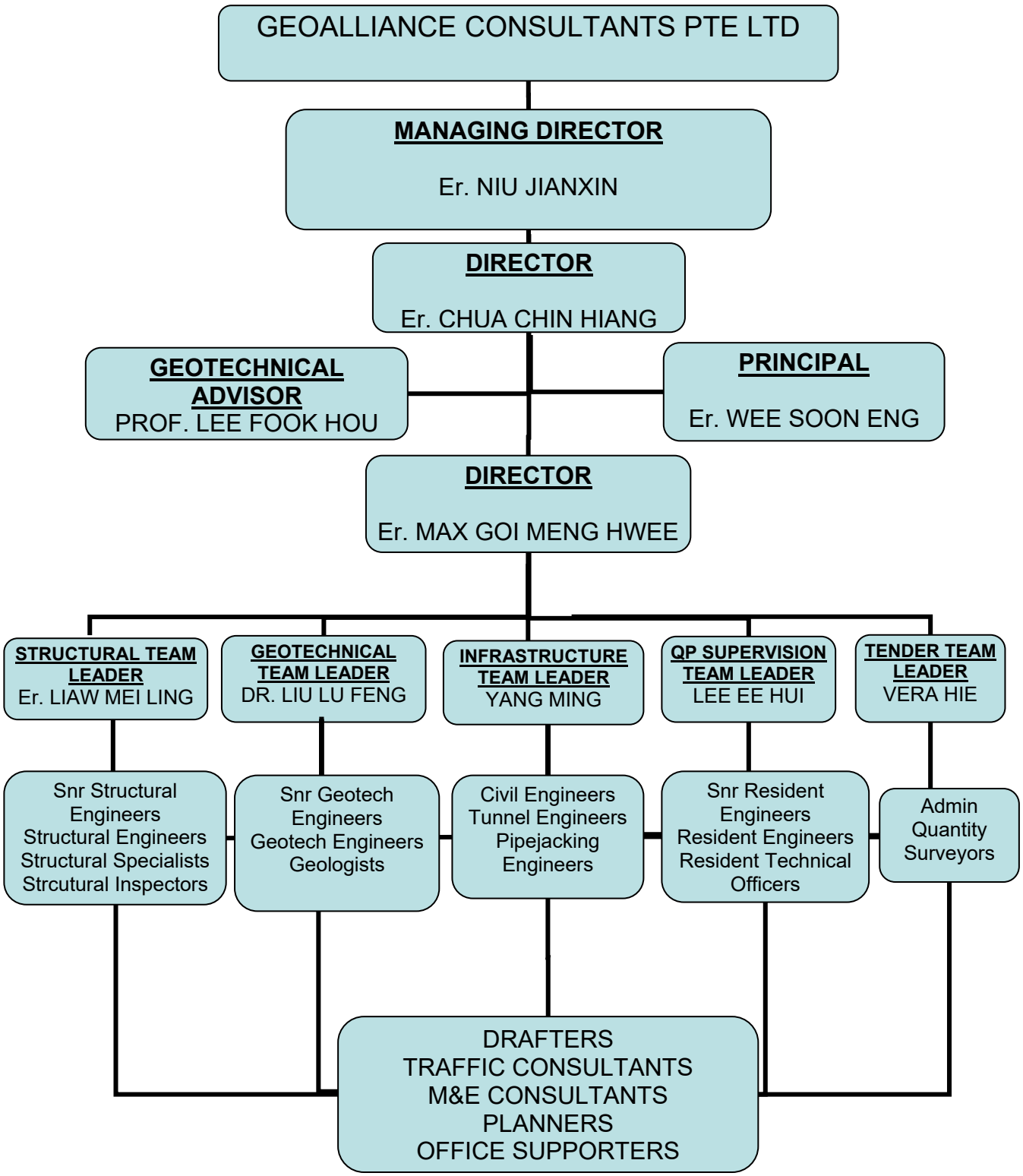
- Design of ERSS for Proposed Erection of Business Park Development at One North (Mediapolis)
- Design and Supervision for Proposed Laying of Gas Transmission Pipelines from Jalan Bahar to Old Choa Chu Kang Road, Singapore
- Accredited checking of foundation bored pile design for HDB Development at Clementi Ave 4/Ave 6/ Commonwealth Ave West, Singapore
- Accredited checking of ERSS design for MUH, Singapore
- Accredited checking of ERSS design for HDB Development at Bedok North Road, Singapore
- Design and Supervision for 10-storey Residential Apartment with Basement at Hillview Terrace, Singapore
- Supervision of Thomson East Coast Line T215 – MRT Station and Tunnel

Qualifications
BEng (Civil)
Meng (Geo)
PEng (Civil)

Years In Industry
16 yrs

GeoAlliance Consultants Pte Ltd

Company Organisational Chart



Recent Projects

Public & Private Housings

Client
Housing & Development Board (HDB)

Services Provided
Specialist Accredited Checker (Geotechnical)

Date Completed
February 2012

Specialist Accredited Checker Services For HDB Block at Woodland Street 31 (Woodlands N3 C14), Singapore

The development comprises 1 Block of 33-storey Residential Building (Total 222 Units) With Future Communal Facilities, Precinct Pavilion and ESS at Woodlands Street 31 (Woodlands N3 C14).

GeoAlliance Consultants was appointed by HDB to carry out the AC (Geotechnical) service to provide independent geotechncial analysis and checking for pile foundation design and evaluation of pile load tests for the development.



Commercial Buildings

Client
Beca Carter Hollings & Ferner (SEA) Pte Ltd

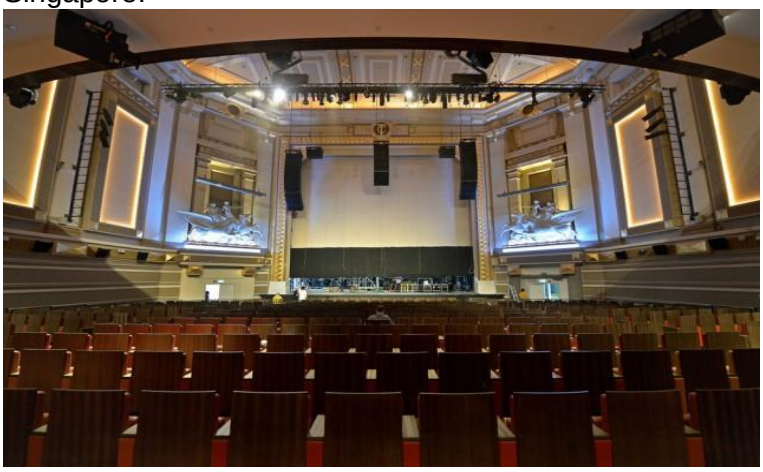
Services Provided
Specialist Accredited Checker (Geotechnical) – ERSS System

Date Completed
End 2015

Capitol Redevelopment Project, Singapore

The project involves the proposed conservation of Capitol Theatre, Capitol Building & Stamford House as a n ew commercial and hotel development with 6 basements and subway under North Bridge Road in the vacinity of existing City Hall MRT Station and Tunnel.

GeoAlliance Consultants was engaged by Beca Carter Hollings & Ferner (SEA) Pte Ltd to provide Specialist Accredited Checker (Geotechnical) services for the basement ERSS system which was designed by Arup Singapore.



GeoAlliance Consultants Pte Ltd

Client
Sim Lian Group

Services Provided
Full Detailed Design Service – ERSS System

Date Completed
In Progress (90% Completion)

Bukit Panjang Mixed Development, Singapore

The new development at Bukit Panjang is a Mixed development, comprising of Commercial, Residential and SOHO integrated with a bus interchange. Residential Flat Development comprising 3 blocks of 23-storey Residential Condominium with 2 basement. The basement is within a railway protection zone of Bukit Panjang MRT station.

GeoAlliance Consultants was engaged by Sim Lian Group to provide Civil and Specialist Geotechnical design and consultancy for the basement ERSS system including 13m wide Canal diversion.



GeoAlliance Consultants Pte Ltd

Mass Rapid Transit Projects

Client
Ecas-EJ Consultants Pte Ltd

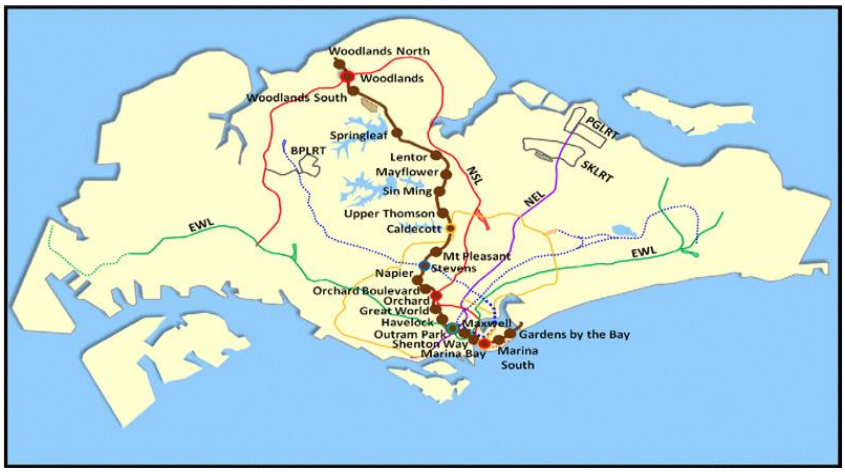
Services Provided
Qualified Person Supervision (Geotechnical) for C929A and C928

Date Completed
In Progress

Qualified Person Services QP(Supervision) for DTL3 Contract 9188B1, Singapore

The contract 9188B1 is the appointed consultant service for Construction Supervision for two civil contracts, namely, C928 – Bedok town park station and associated tunnels for DTL 3, and C929A – Cut and cover tunnels at UBI and TSFB and bored Tunnels between UBI and KKB stations and Reception Tunnels for DTL3.

GeoAlliance Consultants supported Ecas-EJ Consultants as the QP Supervision (Geotechnical) to two civil contracts, which were awarded to Japanese contractors, Nishimatsu Construction Co. LTD and Sato Kogyo (S) Pte Ltd.





GeoAlliance Consultants Pte Ltd

Client
Land Transport Authority

Services Provided
Qualified Person (Supervision)

Date Completed
In Progress

Construction Cost
454 million SGD

Contractor
Penta Ocean Construction Co. Lte

Appointment of Consultant for Supervision of LTA Thomson Line Contracts T211 (Sin Ming) and T215 (Mount Pleasant), Singapore

GeoAlliance Consultants was engaged by Land Transport Authority, Singapore, to provide Qualified Person (Supervision) services.

The scope involves Qualified Person (Supervision) services including the provision of Qualified Site Supervisors (RE/RTO) for the Thomson Line Sin Ming Station, Mount Pleasant Station and associated Cut&Cover Tunnels and Bored Tunnels.



GeoAlliance Consultants Pte Ltd

Airport & Port

Client
Ministry of Transport

Services Provided
Specialist Accredited Checker (Geotechnical)

Date Completed
In Progress

Changi Terminal 5

The consultancy service is as Specialist Accredited Checker (Geotechnical) for land preparation works for airport development.

GeoAlliance Consultants was appointed by Ministry of Transport to carry out the independent geotechnical analysis for canal and service diversion, slope cutting and filling, ground improvement.



Client
JTC

Services Provided
Specialist Accredited Checker (Geotechnical))

Date Completed
In Progress

RECLAMATIONS AT TUAS VIEW EXTENSION AND JURONG ISLAND

The consultancy service is to check the stability of perimeter bund and the impact assessment due to reclamation works.

GeoAlliance Consultants was appointed by JTC to carry out the independent analysis for geotechnical related works of the following:

- Project A – Proposed Reclamation at Jurong Island Westward Extension
- Project B – Proposed Reclamation at Ayer Chawan Phase 2
- Project C – Proposed Reclamation and Soil Improvement Works at Tuas View Extension Area A2



GeoAlliance Consultants Pte Ltd

Public Infrastructure Projects

Client
Public Utilities Board

Services Provided
Specialist PE (Geotechnical)

Date Completed
July 2014

Consultancy Services For Development of Drainage Master Plans for Waterways – Group 2 Catchment : Bukit Timah Canal (Upper) to Sungei Pandan

The consultancy service is to improve flow of waterways and to provide mitigation measures to address flooding at identified locations from Bukit Timah Canal (Upper) to Sungei Pandan.

GeoAlliance Consultants was appointed by Black & Veatch (Singapore) to provide specialist consultancy services on construction methodology, geotechnical matters and temporary works design support.



Client
National Parks Board

Services Provided
Inspections for Slopes in Labrador Park Nature Reserve

Date Completed
October 2012

Consultancy Services For Preliminary Studies And Visual Inspections For Slopes In Labrador Nature Reserve, Singapore

The consultancy service requires a visual inspection and preliminary risk analysis on the existing slopes in the natural reserve. Suitable slope strengthing and protection method are also part of the service.

GeoAlliance Consultants was appointed by NParks to carry out the professional engineering services to provide inspection, risk assessment, and recommendation for the slopes.



GeoAlliance Consultants Pte Ltd

Client
Black & Veatch (SEA) Pte Ltd

Services Provided
Geotechnical Consultancy

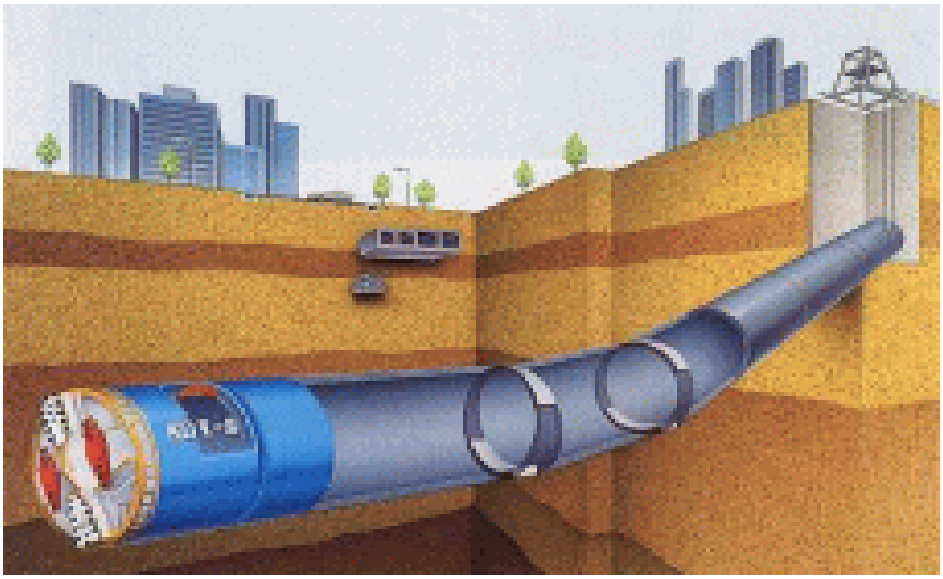
Date Completed
Feasibility - March 2013
Detailed design - In progress

Murnane Pipeline Project, Singapore

The project involves the planning and design of a PUB water pipeline from Murnane Service Reservior to Marina South. The pipe line are crossing below serveral MRT tunnels, road and buildings.

GeoAlliance Consultants was engaged by Black & Veatch (SEA) Pte Ltd to provide geotechnical consultancy, construction method, alignment study and cost estimate for the works.





GeoAlliance Consultants Pte Ltd

Education, Research & Medical

Changi General Hospital (CGH) Medical Centre

Client
Ministry of Health

Services Provided
Specialist Accredited Checker (Geotechnical)

Date Completed
May 2015

The consultancy service is as Specialist Accredited Checker (Geotechnical) for the proposed development of the CGH Medical Centre with 3 basements and carparks for CGH at Simei Street 3 (Tampines).

GeoAlliance Consultants was appointed by Ministry of Health to carry out the independent geotechnical analyses and checking for the permanent and temporary ERSS design for the 3 basements and linkway to the existing CGH.



Temasek Polytechnic – SIT Project, Singapore

Client
V3 Construction Pte Ltd

Services Provided
Specialist Accredited Checker (Geotechnical) – ERSS System

Date Completed
Sep 2014

The project involves the construction of a 8-storey institutional building with 2 basements.

GeoAlliance Consultants was engaged by V3 Construction Pte Ltd to provide Specialist Accredited Checker (Geotechnical) services for the basement ERSS system.



GeoAlliance Consultants Pte Ltd

Client
Gammon Construction Ltd

Services Provided
Qualified Person (Design) – ERSS Support System

Date Completed
June 2012

P&G Innovation Centre, Singapore

P&G Innovation Centre is situated at BioPolis, Buona Vista. The project involves the construction of a 6-storey research & development centre with 2 basements.

GeoAlliance Consultants was engaged by Gammon Construction Ltd to provide Qualified Person (Design) services for the basement ERSS support system and construction decking.



P&G SgIC is the largest private research facility in Singapore.

GeoAlliance Consultants Pte Ltd

Roadworks

Client
Land Transport Authority

Services Provided
Qualified Person (Supervision)

Date Completed
End 2015

Widening of Upper Paya Lebar Road, Singapore

The project involves widening of Uppaer Paya Lebar Road from Bartley Road to Upper Serangoon Road.

GeoAlliance Consultants was engaged by Land Transport Authority, Singapore, to provide Qualified Person (Supervision) services.



Client
Land Transport Authority

Services Provided
Specialist Accredited Checker (Geotechnical)

Date Completed
May 2012

Consultancy Services For Contract ER357- Access Road Connecting Faber Walk To Commonwealth Avenue West, Singapore

The consultancy service requires an Accredited Checker service on the proposed up to 8m high cantilever CBP retaining wall to retain high slopes for a road wedening.

GeoAlliance Consultants was appointed by LTA to carry out the independent geotechnical analysis for both temporary and permanent retaining walls and slope stability.



GeoAlliance Consultants Pte Ltd

Certifications



REPUBLIC OF SINGAPORE
PROFESSIONAL ENGINEERS BOARD

PROFESSIONAL ENGINEERS ACT
(CHAPTER 253)

LICENCE TO SUPPLY PROFESSIONAL ENGINEERING SERVICES

GEOALLIANCE CONSULTANTS PTE. LTD.

having its principal place of business at

33 Ubi Avenue 3 #05-11 Vertex Singapore 408868

is issued a licence to supply professional engineering services in Singapore subject to the following conditions as stipulated in section 21 of the Professional Engineers Act:

1) The licensee shall supply professional engineering services in Singapore through a professional engineer —

(a) who shall be responsible for the professional engineering works;
(b) who has in force a practising certificate authorising him to engage in professional engineering work to which those services relate; and
(c) who is —
(i) in the case of a corporation, a director or an employee of the corporation;
(ii) in the case of a partnership, a partner or an employee of the partnership; or
(iii) in the case of a limited liability partnership, a partner or an employee of the limited liability partnership.

2) The licensee, if it is a limited corporation or a limited liability partnership, shall not supply professional engineering services in Singapore unless the licensee is insured in respect of professional liability in accordance with the Professional Engineers Act and the rules made thereunder.

This licence shall be valid from the date of issue as shown below and shall expire on

31 December 2017

Licence issued on: 01 January 2017
Licence No: L2017-017
Reference No: PEB190/12-L

Registrar
Professional Engineers Board
Singapore

Licence Fee received: $500.00



Building and Construction Authority

CERTIFICATE OF ACCREDITATION

This is to certify that

GeoAlliance Consultants Pte Ltd

is registered as an Accredited Checking Organisation under the Building Control Act

This certificate is valid from 1 Jan 2017 to 31 Dec 2017

Er. Chew Keat Chuan
Commissioner of Building Control
Singapore

AC Organisation Registration No: A060

Date: 6 Dec 2016



Certificate of Registration

This certificate has been awarded to

GeoAlliance Consultants Pte Ltd

21 Bukit Batok Crescent, WCEGA Tower #09-81, Singapore 658065, Singapore

in recognition of the organization's Quality Management System which complies with

ISO 9001:2008

The scope of activities covered by this certificate is defined below

Provision of Civil and Structural Engineering Consultancy Services

Certificate Number:	Date of Issue: (Original)	Date of Issue:
70360/B/0001/UK/En	20 October 2015	20 October 2015
Issue No:	Expiry Date:	
1	14 September 2018	

Issued by: On behalf of the Scheme Manager



Date of Issue: 15/09/2016

bizSAFE

CERTIFICATE

The Workplace Safety and Health Council is pleased to certify that

GEOALLIANCE CONSULTANTS PTE. LTD.

has fulfilled the requirements to attain bizSAFE Level 3

This certificate will expire on 15/09/2019

Winston Yew
Deputy Director, Industry Capability Building
Workplace Safety and Health Council

WSHCOUNCIL

Certificate No. BZ4830

SINGAPORE 1000
SINGAPORE SME 1000
INTERNATIONAL 100

GeoAlliance

GeoAlliance Consultants Pte Ltd

GeoAlliance International Pte Ltd

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Singapore 408868

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Mob: +61 (0) 4 0301 6371
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