

Current Position: Director, Pearson Engineering Consilia

Qualifications, Registrations and Affiliations:

Bachelor of Engineering (Civil) - University of Queensland (1976)
Master of Business Administration (Technology Management) – Deakin University (2000)
Chartered Professional Engineer (NPER) (Australia) (1980)
Registered Professional Engineer (Civil), Hong Kong (RPE)
Registered Professional Engineer of Queensland (RPEQ)
Member of the Hong Kong Institution of Engineers (1992)
Member of the Institution of Engineers (Australia) (1980)

SUMMARY

Tony has over 40 years experience as a civil engineer who has maintained his technical engineering capabilities whilst also having 30 years experience at leading engineering teams and businesses technically and from a business operations perspective. He also has experience of change control in organisations.

Tony is currently a **Director** at **Pearson Engineering Consilia**.

He was previously a **Key Account Leader** at Mott MacDonald having also been **Head of Transportation, Greater China**, with Mott MacDonald in Hong Kong. As Key Account leader he had responsibility for the business development and for existing projects with major customers, including the performance of the projects and resolution of all commercial claims.

In his previous role as **Transportation Sector Lead** for Hong Kong and Greater China he had technical and commercial oversight (including P&L responsibility) of all transport sector projects in the region. Projects included major infrastructure in roads and bridges, rail and airports sectors as well as specialist designs and studies. Responsible for business development within the sector and for facilitating the connection of the region's staff with the global Mott MacDonald Group.

Previously **Director and Head of Consulting** at **Maxwell Geosystems** in Hong Kong. He was responsible for business development and sales in the Australasia and S E Asia and greater China region, and for consulting projects worldwide.

Tony was the **Head of the Infrastructure Unit** at **URS Hong Kong** responsible for leading the unit in the performance of complex multi-disciplinary projects as well as specialist projects within the expertise of the unit – which included railway (MTR) projects, civil structures, bridges, cut and cover tunnels and the like, road works, water supply drainage and sewerage and traffic engineering and transportation engineering. He made significant improvements to the previously underperforming unit so that it is now performing to budget.

Previously, as a **Director of Benaim China**, a specialist consultant in the “Design and Build” market, he helped guide the company to double its turnover in four years whilst maintaining profit margins. Benaim's clients were almost exclusively contractors. As such, Tony has a large body of experience in the design and build environment for major infrastructure projects permanent and temporary works designs, as well as specialist projects and tender designs.

Tony's experience has been gained in Australia, Britain, Singapore, Malaysia, and Hong Kong. During the conduct of projects, he has also been engaged in projects in Macau, Canada, Dubai, Thailand, China, Indonesia and the Philippines. He is familiar with many design codes and practices, including for specialist wind and seismic designs.

He is experienced as the Project Director, Project Manager and Team Leader of large multi-disciplined infrastructure projects (such as the Brisbane Airport Link, Kuala Lumpur Middle Ring Road, Hung Hom Bypass, Route 7, Tripoli Harbour, MTR and Macau LRT new line projects, Northern Access Road to Cyberport, Central Kowloon Route and the HKIA APM and BHS tunnels), as well as smaller more specialised bridges and civil and building projects. As well as his experience in the design and construction supervision most areas of civil and structural engineering he a specialist bridge engineer, having experience in the design of all types and forms including long span bridges. He is experienced in the design of building structures (including high rise), and tunnels.

SELECTED PROJECT EXPERIENCE –CIVIL, STRUCTURAL, AND RAILWAYS

HKIA 3RS 3138 APM AND BHS TUNNELS, Hong Kong (2017 – 2025)

Project Director for the detailed design of the 2.6 km long tunnels consisting of a total of 8 cells of cut and cover boxes in both the existing and new reclamation of the airport platform from the existing Terminal 2 to the new Third Runway Concourse for the airport expansion. Four of the tunnel cells carry an Automatic People Moving (APM) system and the other four carry the Baggage Handling System (BHS). Designs include all civil, structural, tunnel ventilation, fire services, airport and M&E services to the tunnels, two ventilation buildings and three emergency access point buildings.

HKIA 3RS P281 RECLAMATION DESIGN AND AIRPORT PLATFORM, Hong Kong (2017 – 2022)

Project Director for the major sub-consultancy for the construction stage of this massive reclamation project which has involved numerous design changes due to unforeseen ground and construction programme issues.

CENTRAL KOWLOON ROUTE, Hong Kong (2017 – 2025)

Senior advisor providing technical, contract administration and management expertise to the project. The project includes highways alignment, bridges and viaducts, cut and cover tunnels and a drill and blast tunnel. Acted as the consultant's JV Project Director for the whole of the CKR consultancy and also the Project Manager's Representative and Supervisor to the Central Tunnel NEC works contract for the project.

KLANG VALLEY MRT STAGE 2, Hong Kong (2016-2017)

Project Director responsible for setting up the digital database and reporting system (Mission OS) for the tunnelling for the new mass transit railway construction.

WYNNN COTAI SITE IMPROVEMENT, Macau (2013 - 2014)

Project Director for the civil works for the very large resort and casino development. Works include internal estate roadworks, service areas, drainage sewerage, water supply and other utilities provision.

CENTRAL WANCHAI BYPASS - WANCHAI EAST, Hong Kong (2012)

Project Director for the contractor's alternative design of a large cut and cover tunnel to be formed in new reclamation and for the temporary works designs required for the tunnel.

BRISBANE AIRPORT LINK, Australia (2009 – 2011)

Project Director responsible for the design of major temporary works and construction engineering services for the very large (AUD 4 bn) design and build tunnelling project. Scope included a large jacked box tunnel under a 6 track railway line, and design of a large shaft facilitating the main tunnel drive constructed with temporary anchored walls and rock cutting below.

KCRC SDC100, SHATIN TO CENTRAL LINK RAILWAY, TAI WAI TO DIAMOND HILL SECTION, Hong Kong (2003–2004)

Team Leader for the scheme designs of the surface works section, including the Hin Keng tunnel portal, Portal Building, cut and cover tunnel, at grade and viaduct sections. Responsible for geotechnical input to all areas (including all tunnel sections) of the designs, and for the utilities coordination and design for the consultancy. Construction Planning Manager for the consultancy.

KCRC SCL200 SHATIN TO CENTRAL RAILWAY LINK, Hong Kong (2001)

Construction Planning Engineer for the study and preliminary designs for the 10 km long Sha Tin to Hung Hom section of the study for the KCRC.

MTRC C601, TSEUNG KWAN O LINE, HANG HAU TUNNELS, Hong Kong (1999-2001)

Project Manager responsible for the Contractor's alternative designs of the permanent and temporary works for the cut and cover tunnels on the MTRC Tseung Kwan O Line. The alternatives included a section of driven tunnel as well as substantial savings to the cut and cover sections.

MTRC C603, TSEUNG KWAN O LINE, BLACK HILL TUNNELS, Hong Kong (1998)

Project Manager for the tender design of the tunnels on the Tseung Kwan O Line, to be procured via the "Design and Build" method. The scheme involved four running tunnels, a siding tunnel and crossovers, as well as cut and cover sections and formation works at each end and a ventilation shaft and building mid-way along the route. (1998)

KCRC WEST RAIL, MEI FOO STATION ALTERNATIVE DESIGN Hong Kong (1999)

Project Manager for the Feasibility and Preliminary Design phases of the Contractor's alternative designs. The scheme, which was accepted by the KCRC and subsequently built involved a radical redesign of the station foundations.

HONG KONG CONVENTION AND EXHIBITION CENTRE, Hong Kong (2005)

Project Manager for the civil and structural tender designs for the HK\$2 billion extension, with very large roof trusses to support several floors of exhibition halls over water.

TAMAR GOVERNMENT COMPLEX DEVELOPMENT, Hong Kong (2006 – 07)

Project Manager for the tender structural designs for the development involving a high rise office building, a new Legislative Council building and an executive office building.

CHEK LAP KOK AIRPORT (HONG KONG) NORTH RUNWAY AIRPORT GROUND LIGHTING CIVIL WORKS, Hong Kong (1996 – 08)

Team Leader for the civil works including the design and construction supervision of two electricity sub-stations, water supply mains, and cabling works. The works included the designs of two tunnels - built as precast units - carrying services under the runway. Responsible for statutory submissions for the constructed works.

NEW CATHAY PACIFIC HEADQUARTERS AT CHEK LAP KOK, Hong Kong (1995 – 98)

Civil Works Team Leader responsible for roadworks and all other civil works for the development. Also responsible for aspects of the office and hotel building structural designs.

LAM TIN HOUSING DEVELOPMENT, United Kingdom (1986)

Engaged in the design of high-rise residential buildings to be built in Hong Kong.

DOCKLANDS DEVELOPMENT OFFICE BUILDING, United Kingdom (1986-87)

Project Engineer responsible for the design of a piled building raft over water and the building superstructure for an office in the Millwall Dock, London.

SELECTED PROJECT EXPERIENCE - BRIDGES

JEBEL ALI T4 BRIDGE, Dubai (2014)

Project Director for the detailed design, for a design and build contract, of a 440m long marine access bridge for the new terminal 4 at Jebel Ali port. The bridge is unusual in that it is to have precast spread footing foundations, precast piers and a precast headstock shell as well as standard precast prestressed girders. Spans are 40m.

EXPRESS RAIL WEST KOWLOON TERMINUS, Hong Kong (2013)

Project Director for the contractor's design for the public thoroughfare (Austin Road) temporary bridge across the West Kowloon Terminus temporary excavation. The bridge was a steel girder bridge with concrete deck spanning the 250m wide excavation. The bridge deck was supported by the permanent works king posts for the station superstructure, requiring extensive "locked-in" effects to be investigated. Also involved in the analysis of the excavation temporary works for the semi-top down 30m deep station excavation.

NEW GATEWAY BRIDGE, BRISBANE, Australia (2007- 09)

Project Director for the detailed design checking of the structures of the main river crossing and approach viaducts. The river crossing has a main span of 260m and is built as cast insitu balanced cantilever. The approach viaducts are precast segmental.

CAUSEWAY BAY FLYOVER, Hong Kong (2006)

Project Manager responsible for contract administration of the new flyover and road improvement scheme in a very busy urban area of Hong Kong.

CASTLE PEAK ROAD IMPROVEMENT BRIDGES, Hong Kong (2005 - 06)

Design Team Leader for the design of 3 contractor's alternative bridges for the road improvement. One bridge was a twinned skewed reinforced concrete arch with stepped foundations, another a concrete box girder with external prestress, and the third a multispan reinforced concrete deck with integral intermediate piers and an innovative very high reinforced earth abutment.

ROUTE 8 LAI CHI KOK VIADUCTS, Hong Kong (2005 – 06)

Project Manager for alternative bridge and foundation designs for the Contractor for project, which involves the construction of several kilometres of prestressed viaducts built in balanced cantilever with match cast precast segments. Also responsible for remedial works studies, recommendations, for the remedial design certification, and certification of temporary works designs including launching gantry, gantry kinematics, and temporary prestress.

MTRC, CHOI HUNG PARK & RIDE DEVELOPMENT, Hong Kong (2004)

Project Manager for design of elevated road access to the development. Structures included or viaduct with a 50m span over the MTRC running tunnels and foundations spaced to avoid running tunnels and subways.

MEKONG RIVER BRIDGE, Cambodia (2003 - 04)

Project Manager for the conceptual and preliminary designs a major river crossing in Cambodia. Designs included two alternative cable stayed bridges, of 300m and 400m main spans, a 220m main span balanced cantilever prestressed concrete bridge; and long approach viaducts over the river floodplain, with alternatives using steel girders and steel trusses and precast prestressed concrete.

NORTHERN ACCESS ROAD TO THE CYBERPORT DEVELOPMENT, Hong Kong (2002 – 06)

Project Director responsible for the conceptual and detailed design and construction supervision of 500m long new road formed by bridges, earthworks and large retaining walls (up to 22m high) in very difficult topography. The four bridges have spans up to 52 metres, and carry utilities and watermain.

ROUTE 7, KENNEDY TOWN TO ABERDEEN, Hong Kong (1999 –2000)

Team Leader responsible for the conceptual and preliminary designs of over six kilometers of highway viaducts, mostly to be built by precast segmental (match-cast) methods. Marine viaducts have spans of up to 110m to span vital submarine utility corridors. Also responsible for the designs of three cut and cover road tunnels (two of which are almost 200m long) and various minor structures.

NEW CATHAY PACIFIC HEADQUARTERS AT CHEK LAP KOK, Hong Kong (1997 – 98)

Project Manager for the design of a “signature” pedestrian footbridge at Cathay City, Chek Lap Kok. The bridge consists of a curved shallow steel box girder span partly supported by a canted arch, and a further, straight simple steel box girder span.

AU TAU ROUNDABOUT FLYOVER, Hong Kong (1995)

Project Manager for the design of a steel girder with concrete deck viaduct over the roundabout. Built as a temporary structure to relieve traffic congestion in 1995, it is still in use, with some modifications, in 2026.

SHANTOU BAY BRIDGE, China (1995 –96)

Project Manager for the Design and Construction Audits of, for the BOT franchisee of the 420m span suspension bridge (unusually) constructed with a concrete precast and prestressed segmental deck.

HUNG HOM BYPASS AND PRINCESS MARGARET ROAD LINK INVESTIGATION STUDY AND PRELIMINARY DESIGN, Hong Kong (1993 –94)

Structures Team Leader responsible for the designs of over six kilometres of bridge viaducts to be built by the precast (match-cast) balanced cantilever method. Also responsible for the design of a vehicular underpass and various footbridges.

KAP SHUI MUN BRIDGE AND MA WAN VIADUCTS, Hong Kong (1992 – 97)

Project Manager for the independent design appraisal and certification of the Ma Wan Viaduct (520m long with 80m spans) and the concrete side spans of the 440m span cable stayed Kap Shui Mun Bridge.

MTRC, LAI CHI KOK VIADUCTS, LANTAU AND AIRPORT RAILWAY, Hong Kong (1992)

Project Manager - Independent value engineering studies for the MTRC of the detailed design, by others, of viaducts for the LAR between Kwai Chung Park and Lai Chi Kok Station.

AP LEI CHAU DEVELOPMENT BRIDGEWORKS, Hong Kong (1991 – 92)

Team Leader for the design and construction supervision of a 40m span steel and concrete, cable stayed, pedestrian/emergency vehicle access bridge for the large residential development. Also responsible for the construction supervision of 60m span prestressed steel trusses supporting a landscaped garden area.

YUEN LONG CABLE BRIDGE, Hong Kong (1991 – 92)

Project Manager for Design and supervision of construction of a 60m span, steel truss, cable crossing bridge and adjacent road junction improvement at Yuen Long.

MIDDLE RING ROAD, KUALA LUMPUR, Hong Kong (1987 – 1991)

Project Manager for the major roads improvement scheme in Kuala Lumpur involving the upgrading of three at grade intersections to grade separated junctions. Designs include a flyover constructed of precast prestressed beams made continuous for live load and monolithic at piers, a number of single span bridges and two road underpasses. Also responsible for construction supervision teams.

DOCKLANDS LIGHT RAILWAY, ROYAL DOCKS EXTENSION, United Kingdom (1988)

Independent Check Design Team Leader. Responsible for independent check designs of structures carrying the DLR in the Royal Docks area of London, together with check designs of two major overbridges, footbridges, station structures, and ancillary civil works.

TRIPOLI HARBOUR DEVELOPMENT, Hong Kong (1981 - 82)

Engineer involved in bridge designs including two precast beam and cast-in-situ slab structures, and a cast-in-situ three span box girder deck with integral Y shaped piers. Also involved in associated road alignments and civil works.

ALFORD'S POINT BRIDGE, Hong Kong (1985)

Engineer engaged in the detailed design of the duplication of the multi-span river crossing bridge. The bridge was designed as a prestressed precast segmental single cell box-girder, built span by span.

BRAIDWOOD BRIDGE, NSW, Australia (1979)

Project Engineer engaged in the detailed design of a concrete bridge near Braidwood.

LOW LEVEL CROSSINGS, ACT, Australia (1977 -78)

Project Engineer engaged in the design and construction supervision of low level crossings of the Molonglo River and the Murrumbidgee River.

EMPLOYMENT HISTORY

Nov 2014 to May 2015 and November 2025 to Date

PEARSON ENGINEERING CONSILIA, Hong Kong

Director, responsible for all aspects of the business providing specialist advice to contractors and engineering consultants.

Mar 2017 to October 2025 MOTT MACDONALD, Hong Kong

To October 2025

Key Account Leader for Major Projects, Greater China
Project Director for major infrastructure projects in Hong Kong.

To Dec 2019:

Head of Transport and Transportation Sector Lead for Greater China. Responsible for the financial performance of the sector in the region, including the technical and commercial performance of projects, business development and work winning, and for staffing. Directly managing approximately 100 staff and over 100 site based staff in Hong Kong and Macau, and indirectly responsible for transportation sector staff in China. (Leading over 100 office based and approximately 100 site based personnel.)

May 2015 to Feb 2017 MAXWELL GEOSYSTEMS, Hong Kong

Director and Head of Consulting responsible for sales and P&L in the Australasia and S E Asia and greater China region, and responsible for consulting worldwide.

Jan 2013 to Nov 2014 URS HONG KONG LTD, Hong Kong

Director, Infrastructure. Head of the Infrastructure Business Unit. Responsible for the overall operations and management of the Infrastructure Unit including P&L. (Approximately 65 office based staff and up to 250 site based staff)

2007 to 2013 BENAİM (CHINA) LIMITED, Hong Kong

Director, responsible with the other directors for the management and operations of the company. Specific responsibilities included for Commercial, Financial, Marketing and Quality Assurance functions. (Approximately 65 office based staff and 1 site based staff)

1997 – 2007 JACOBS CHINA (FORMERLY JACOBS BABTIE), Hong Kong

(note that Jacobs bought Harris & Sutherland in 1997)

Technical Director and Group Leader (leading approximately 10 -15 office based staff and 20 site based staff)

1991 - 1997 HARRIS & SUTHERLAND (FAR EAST) LTD, Hong Kong

Tony Pearson

Principal Engineer then Technical Director and Group Leader
Responsible for bridge and civil engineering projects, and for complex building projects.

- 1988 - 1991** **HARRILAND PERUNDING T.P. SDN BHD, Malaysia** (subsidiary of Harris & Sutherland, UK)
Manager responsible for the day-to-day management of all aspects of the office and the performance of civil and structural engineering projects including a major roads and bridges project in Kuala Lumpur.
- 1984 - 1988** **HARRIS & SUTHERLAND, UK**
Engineer and team leader engaged in bridges, civil and structural engineering projects.
- 1983** **WILLING & PARTNERS PTY. LTD., Australia**
Project Engineer engaged in hydrology studies and civil engineering designs.
- 1982** **HARRIS & SUTHERLAND, UK**
Engineer responsible for civil and structural designs for a new hospital development.
- 1981 - 1982** **SIR BRUCE WHITE WOLFE BARRY AND PARTNERS, UK**
Engineer engaged in the design of bridges and road alignments for a major infrastructure project in Libya.
- 1976 - 1980** **WILLING & PARTNERS PTY. LTD., Australia**
Assistant Engineer and Engineer engaged in civil designs and construction supervision.

PUBLICATIONS

Pearson, A. M., "Project Acceptance", China Construction Bank and AIG Conferences on Engineering Construction Best Practices, Beijing, Wuhan, Xian, and Shanghai, October 1999.

Pearson A. M., "The Design and Analysis of Twin Skewed Arch Bridges for Castle Peak Road, Hong Kong", International Conference on Bridge Engineering, Hong Kong, November 2006.

Pearson A. M., Au . S. K., Lees, A., and Kruger J., "Ground Improvement for a Large Jacked Box Tunnel", Proceedings of the 32nd Annual Seminar Geotechnical Division, The Hong Kong Institution of Engineers, May 2012.

Cheng Y. M., Au S. K., Pearson A. M., and Li N., "An innovative Geonail system for soft ground stabilization", The Japanese Geotechnical Society, Soils and Foundations, Vol 53, Issue 2, April 2013

PEARSON ENGINEERING CONSILIA WEBSITE

www.pengconsilia.com