

COMPANY PRESENTATION

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SUMMARY

- Cembra Engineering Consultancy Overview
- CV of Michael Schmaus, P.Eng.
- Project Experience
- References
 - Tunnel Engineering
 - Geotechnical Works
 - Structures and Bridges
 - Shop Drawing Production, Detailing and BIM

CEMBRA ENGINEERING CONSULTANCY

Start-up: January 2025

Legal form: Sole Proprietorship, UEN 53476816D

Partnership: LLP in progress

Practice in: Singapore

Germany

Canada

Thailand

Services: Geotechnics and Structures

Analysis and Design

Building Information Modelling and Drafting



Michael Schmaus, P.Eng.

Nationalities: German and Canadian Citizen

Singapore PR

Experience: 19 years

Qualifications: Professional Engineer Singapore (5530)

Professional Engineer Canada, BC (36211)

Professional Engineer Germany, BY (113462)

Universities: National University of Singapore, PhD (part-time ongoing since 2023)

École Nationale des Ponts et Chaussées, Paris, M.Sc. (2007)

Technical University of Munich, M.Sc. (2004)



EXPERIENCE IN TUNNELS AND GEOTECHNICAL ENGINEERING

01/2024-10/2024 Part-time design manager at Ed. Zublin AG, Contract DTSS2 T-07

PUB DTSS2 Project, Singapore

09/2017-12/2023 Technical office manager for Ed. Zublin AG, Contract DTSS2 T-07

PUB DTSS2 Project, Singapore

05/2017-10/2017 Design Manager for Ed. Zublin AG, Contract DTSS2 T-07

JTC Project for Service Tunnels in Jurong Island, Singapore

03/2015-05/2017 Design manager for Ed. Zublin AG, Contract T3003

LTA Project for Advance Sewer Diversions, Singapore

06/2013-03/2015 Project Engineer for Ed. Zublin AG, Tunnel Rastatt and Albabstieg

German Railway Project, High-speed Railway Tunnels in Germany

EXPERIENCE IN BRIDGES AND STRUCTURES

06/2012-03/2013 Project Manager for Oculus Entrance Hall to PATH Train Station Port Authority of NY & NJ, Oculus MRT Project in New York City 06/2010-06/2012 Project Manager for BC Place Stadium Roof Replacement CANAM Steel Erection Company, Vancouver, Canada Project Engineer on the Qatar Bahrain Causeway Bridge Project 02/2010-06/2010 Vinci and Hochtief JV, Doha Qatar 04/2007-02/2010 Bridge Engineer for COWI NA in Vancouver, Canada City of Vancouver, Vancouver, Canada 09/2005-09/2006 Bridge Engineer for Freyssinet International & Cie. Paris, Seoul and Bangkok

EXPERIENCE IN BRIDGES AND STRUCTURES

06/2012-03/2013 Project Manager for Oculus Entrance Hall to PATH Train Station Port Authority of NY & NJ, Oculus MRT Project in New York City 06/2010-06/2012 Project Manager for BC Place Stadium Roof Replacement CANAM Steel Erection Company, Vancouver, Canada 02/2010-06/2010 Project Engineer on the Qatar Bahrain Causeway Bridge Project Vinci and Hochtief JV, Doha Qatar 04/2007-02/2010 Bridge Engineer for COWI NA in Vancouver, Canada City of Vancouver, Vancouver, Canada 09/2005-09/2006 Bridge Engineer for Freyssinet International & Cie. Paris, Seoul and Bangkok

SERVICES OFFERED

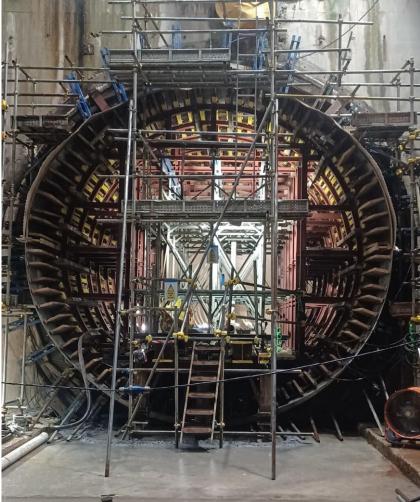
- Temporary works design and endorsement
- Geotechnical analysis and design of all geotechnical works
- Structural analysis and design of bridges and cable-supported structures
- Specialist design for pipe jacking and jacking pipes
- Specialist design for Steel-fibre Reinforced Concrete (SFRC)
- Specialist design for Glass-fibre Reinforced Polymer (GFRP) concrete structures
- Formwork and falsework design and endorsement
- Design for Safety Professional (DfSP)
- Earth Control Measures (ECM) design and Qualified Erosion Control Professional (QECP)

REFERENCES











Design of tunnel-related temporary works, geology review, and DSC claim support



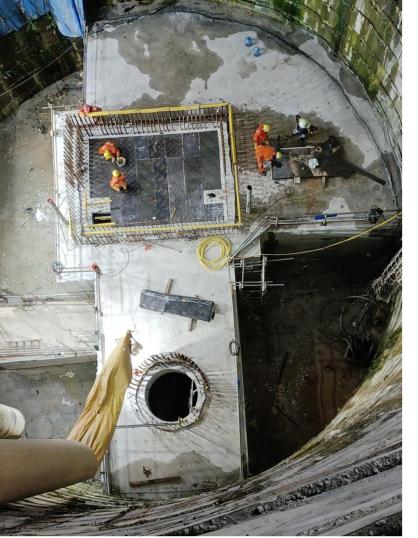


Retaining wall design for Konrad Schmaus GmbH

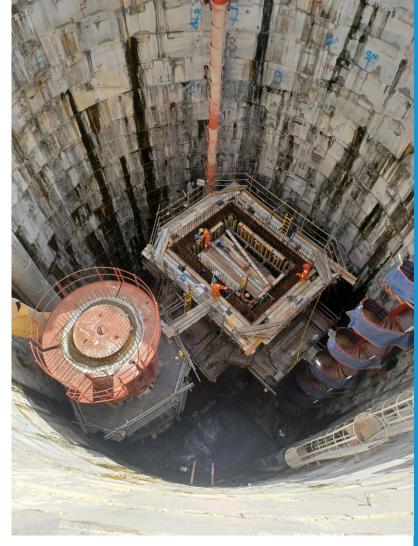
GEOTECHNICAL WORKS

Geotechnical Analysis and design of all geotechnical works, ERSS, slopes, shafts, etc.









FORMWORK DESIGN

Detailed design and endorsement for system and custom formwork including slip forming





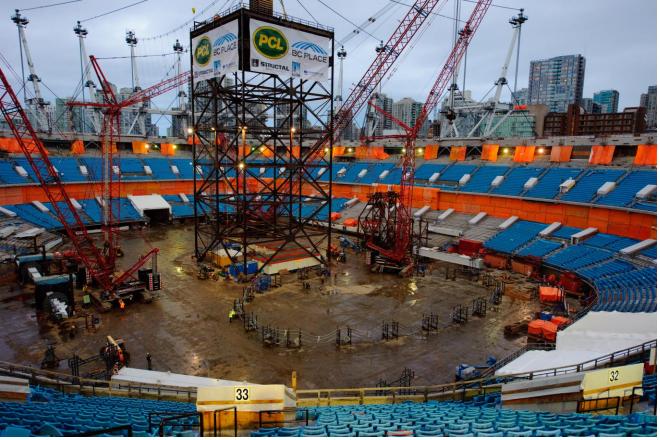




PIPE JACKING DESIGN

Detailed design of pipe jacking face pressure, plant set-up and jacking pipes









STRUCTURAL ANALYSIS

Analysis and design of cable-supported structures, bridges and buildings



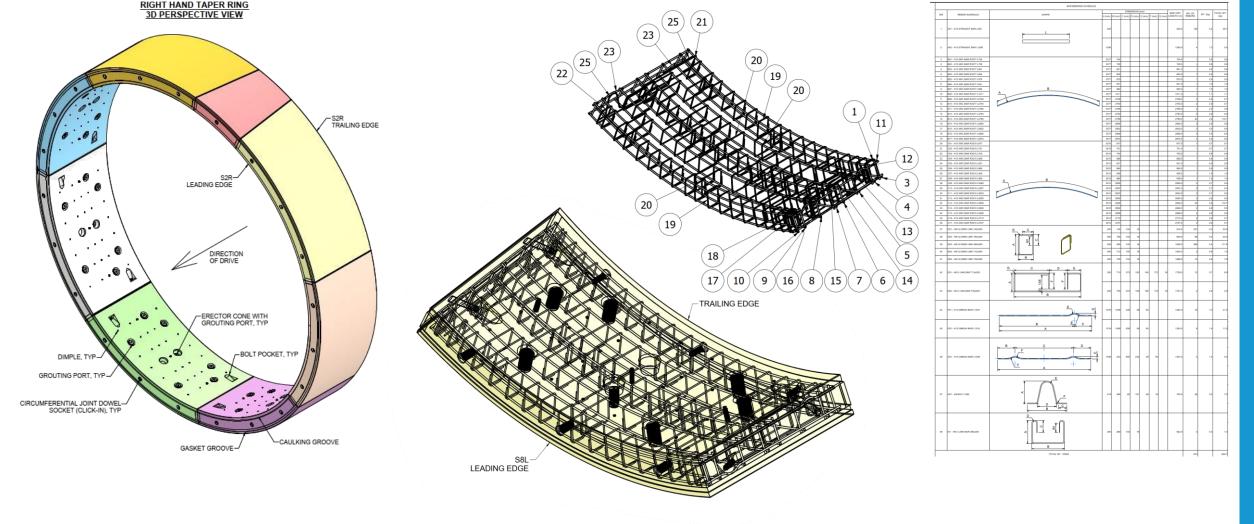






FORMWORK DESIGN

Detailed design and endorsement of complex system and custom formwork



SHOP DRAWING PRODUCTION

Creation of detailed shop drawings for reinforced concrete and steel structures and BIM models











