

# Short CV

Surname and name: NEUENSCHWANDER Matthias

Date of birth: 29.11.1960

Nationality: Swiss

Studies and title: Federal Institute of Technology, Zurich (ETHZ), Switzerland  
M.Sc. (Civil engineering) 1985  
  
Mediator SCCM

Position: Owner and Managing Director, Neuenschwander Consulting Engineers Ltd.,  
Bellinzona, Switzerland

Professional associations: Swiss Society of Engineers and Architects SIA  
Swiss Association of Consulting Engineers suisse.ing:

- Swiss International Experts, Member of the Steering Committee

International Tunnelling and Underground Space Association ITA-AITES:

- Animateur, Working Group 3 (Contractual Practices)

Swiss Tunnelling Society STS (member of the committee 2006-2018)  
Tunnelling and Underground Space Contracts Association TUSCA: Treasurer  
Swiss Chamber of Commercial Mediation SCCM  
International Society for Rock Mechanics ISRM  
Dispute Resolution Board Foundation DRBF  
Dispute Board Federation DBF  
Italian Tunnelling Society SIG  
Association Française des Tunnels et de l'Espace Souterrain AFTES  
Order of Engineers and Architects of Ticino, Switzerland OTIA  
Association of Ticino Engineering and Architecture Firms ASIAT  
Swiss Blasting Society SVS  
Forum for International Conciliation and Arbitration FICA

Languages: German mother tongue  
Italian fluent  
French fluent  
English fluent  
Spanish fluent

## Positions held

- Since 2014: Owner and MD, Neuenschwander Consulting Engineers Ltd., Switzerland.  
Adjudicator, Arbitrator and Mediator.  
Treasurer of the Tunnelling and Underground Space Contracts Association TUSCA (since 2019)  
Animateur of ITA-AITES Working Group 3, Contractual Practices (since 2018)  
Member of the Steering Committee, Swiss International Experts (since 2018)  
Member of the FIDIC Contracts Committee (2018-2020)  
Member of the Committee Swiss Tunnelling Society STS (2006-2018)
- 2012–2014: Managing Director with Lombardi Engineering, Ltd., Switzerland.
- 2004–2011: Member of the board with Lombardi Engineering, Ltd., Switzerland.
- 1999–2005: Resident Engineer, Gotthard Base Tunnel, Bodio Sector, Switzerland.
- 1995–1999: Partner, NN INGEGNERI SA, Consulting Engineers suisse.ing, Bellinzona, Switzerland.
- 1989–1995: Project manager with Losinger Ticino SA, Bellinzona, Switzerland.
- 1989: Engineer with Losinger (USA), Inc., Bellevue (WA), USA.
- 1988–1989: Project manager school constructions with SWISSAID-Chad, Africa.
- 1986–1988: Engineer with "Projet Comportement des Sols au Niger" (ETHZ/SDA), Africa.
- 1985–1986: Assistant with the Geotechnical Institute, ETHZ, Switzerland.

## Selected assignments

### **Single member, Túnel de Zonda (Argentina, 2023-ongoing)**

Road tunnel in San Juan province, Argentina. Single member of the DAAB (Dispute Avoidance and Adjudication Board), contract under FIDIC Red Book, 2nd edition 2017.

### **Expert advisor, Ritom Hydro Power Plant (Switzerland, 2020-ongoing)**

Renewal of the existing hydropower plant with a pump storage system, 2 units 60MW, one pump 60MW, 48 Mio m3 storage capacity, investment 250 Mio CHF. Delegate of the Board of Directors of the Employer Ritom SA (a Joint Venture between the Swiss Federal Railways and the Ticino Power Agency), advisor for contractual, technical and organizational issues.

### **Dispute Adjudication Board Member, Jonction Aéroport-Grand Saconnex JAG, Geneva (Switzerland, 2019-ongoing)**

Large motorway interchange construction project. Contract value: 118 Mio CHF. Member of the standing dispute adjudication board. Parties: Swiss Federal Road Authority FEDRO, Consortium 4J for JAG.

### **Expert advisor, Gotthard Road Tunnel, second bore (Switzerland, 2018-ongoing)**

New two-lane road tunnel parallel to the existing tunnel. Length 17 km with two ventilation caverns and connecting adits to the existing escape tunnel. Excavation of tunnel by TBM and D&B. Member of the engineering Joint Venture in charge of support to the employer. Employer: Swiss federal road authority (FEDRO).

### **Expert advisor, Upper Arun HPP (Nepal, 2021-2023)**

Preparation of Tender documents for the construction of Upper Arun HPP (Run-of-river HPP, Nepal). Client: World Bank Group, Employer: Nepal Electricity Authority (NEA).

### **Independent Expert Witness, Ituango Power Plant (Colombia, 2021-2023)**

New Hydro Power Plant, Litigation on collapse of diversion tunnel. Expert witness to the Construction Supervision JV, Client: Ingetec-Sedic JV.

### **Expert advisor, Route des Nations, Road Tunnel (Switzerland, 2018-2023)**

New road connection between the N1 Motorway and the United Nations neighborhood in Geneva. Two-

lane road tunnel with shallow overburden in urban environment. Intricate quaternary geology with multilevel ground water. Technical and contractual advisor to the design and supervision joint venture. Employer: Canton Geneva, Switzerland

**Independent expert, CERN Hi Luminosity LHC Project (Switzerland-France, 2022)**

Independent expert, dispute over unforeseeable rock mass conditions in a hydraulic rock breaker excavation, contract based on the principles of the FIDIC "Emerald Book". Client: European organization for Nuclear Research CERN.

**Arbitrator, Lugano sewage system (Switzerland, 2022)**

Dispute in a sewer line construction contract, single ad-hoc arbitrator. Parties: Consorzio Depurazione Acque Lugano e Dintorni (Employer), Ravetta SA (Contractor).

**Chair, Dispute Resolution Panel, 5<sup>th</sup> Water Line to Jerusalem (Israel, 2021-2022)**

Underground pressure water line, L= 13 km, Ø 3.9 m, TBM excavation. Chairperson of the Dispute Resolution Panel DRP (substitute to predecessor). Parties: Mekorot Water Co. (Employer), Züblin-Jäger JV (Contractor).

**Adjudicator, Chauderon – Union Prilly Tunnel, Lausanne (Switzerland, 2020-2021)**

Single ad-hoc dispute adjudicator with a final and binding award. Construction dispute on subsurface physical conditions. Parties: Lausanne-Echallens-Bercher Railway Company (Employer), Joint Venture IGBS (Contractor).

**Mediator, VEDI Irrigation Project (Armenia, 2019-2020)**

New irrigation scheme involving 5 FIDIC construction and 2 supervisor contract packages, including a clay core rockfill dam (dam volume 3.5 mio cum, dam height 86m, basin 30 mio cum). Independent contract analysis, advice to all parties and mediation. Parties: Agence Française de Développement AFD, Ministry of Territorial Administration and Infrastructure, Armenia, Sahakyanshin-PEGA Joint Venture, Armenia, Artélia Water, France.

**Expert advisor, Agua Negra Tunnel (Argentine-Chile, 2017-2019)**

Expert advisor to the Employer (Entidad Binacional Túnel Agua Negra EBITAN) for the drafting of the Tender Documents for a 13 km long twin tube road tunnel across the Andes, including a ventilation shaft and adit. Portals at 3'600 and 4'000 m.s.l. respectively, overburden >1'500m. Application of the concepts of the FIDIC-ITA "Emerald Book". Client: Interamerican Development Bank.

**Adjudicator, Belchen motorway tunnel (Switzerland, 2015-2019)**

Member of the Dispute Adjudication Board for the „Belchen Refurbishment Tunnel“, Highway Tunnel (l=3.2 km) across the Jura in limestone formations with swelling ground and Karst. Contract Parties: Federal Road Office FEDRO, JV Marti Belchen AMB.

**Chair, Task Group 10 FIDIC-ITA "New Form of Contract for Tunnelling and Underground Works" (International, 2014-2019)**

Chair (until publication 2019) and liaison to the FIDIC Contracts Committee of the multinational and pluridisciplinary joint task group of the *International Federation of Consulting Engineers* (FIDIC) and the *International Tunnelling and Underground Space Association* (ITA-AITES) for the drafting of a new FIDIC Form of Contract for Tunnelling and Underground Works (the Emerald Book).

**Expert advisor, Hi Luminosity LHC Project CERN (Switzerland-France, 2017)**

Expert advisor to the construction department for the design of works contracts according to the FIDIC-ITA "Emerald Book". Client: European organization for Nuclear Research CERN.

**Resident engineer, expert advisor, project director, AlpTransit, Gottard base tunnel (Switzerland, 1999-2014)**

Twin tube railway tunnel across the Alps (l=57 km) with high overburden, total length of tunnel system: 155 km. Resident engineer Bodio (2000-2005); Expert for risk management (2006-2014); Project Director (2008-2014). Employer: AlpTransit Gotthard Ltd.i.