

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
- International Federation of Consulting Engineers FIDIC:
 - Coordinator, Emerald Book Steering Committee
- Swiss Association of Consulting Engineers USIC:
 - 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)
- TG10 Tunnel Contracts Association: 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
- Order of Engineers and Architects of Ticino, Switzerland OTIA
- Association of Ticino Engineering and Architecture Firms ASIAT
- Swiss Blasting Society SVS

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.
Member, FIDIC Contracts Committee (2018-2020).
Treasurer, TG10 Tunnel Contracts Association (since 2019).
Animateur, ITA-AITES Working Group 3, Contractual Practices (since 2018).
Member, Steering Committee, Swiss International Experts (since 2017).
- 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 USIC, 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.

Teaching activities

- 2000–2010: Professor, Project management, University of Southern Switzerland, Mendrisio, Switzerland.
- 1996–2000: Professor, Project management, University for Applied Sciences, Lugano, Switzerland.
- 1985–1988: Engineer and scientific assistant, Federal Institute of Technology, Zurich, Switzerland.

Selected projects

DAB 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, Ritom Hydro Power Plant (Switzerland, 2019-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.

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, Route des Nations, Road Tunnel (Switzerland, 2018-ongoing)

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

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.

Project Manager, Master plan, Bellinzona railways workshop area (Switzerland, 2018-2020)

Project manager of the City of Bellinzona for the urban development master plan. Parallel study of 5 multidisciplinary design groups to propose the development strategy of a 120'000 sqm area currently occupied by the Swiss Federal Railways maintenance center. Clients: City of Bellinzona, Canton Ticino, Swiss Federal Railways.

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.

Expert advisor, Hi Luminosity LHC Project (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.

Auditing expert, Swiss National Fund for Radioactive Waste Disposal NAGRA (Switzerland, 2015-2016)

Member in charge of risk management of the auditing expert panel for the audition of the five-yearly update of the project budget, Nuclear waste deposits for Switzerland. Client: NAGRA.

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).

Risk, Technical and Contracts Expert, CEVA, new rail link Geneva-Annemasse (Switzerland-France, 2014-2019)

New rail link Geneva central station - Annemasse (France). 16 km railway line in urban area, of which 10 km new line. Investment: 1'600 Mio CHF. Expert advisor to the Employer for risk management, underground, civil, rail works and for contracts. Employer: Swiss Federal Railways and Canton Geneva, Switzerland.

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.

Bellinzona, April 2021