

# Ludovica Pizzarotti



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26/10/1989 Parma, Italy

Milan, Italy

10/2021 – now

## RELEVANT EXPERIENCE

### Pro Iter S.r.l.

Junior Project Manager; (Freelance Professional)

Main assignments: Managing engineering sectorial commissions (budget and production, client relations, engineering team, design packages preparation and submission, etc) in Italy and abroad; specialized consulting activities for technical-economical proposals of Underground Works, Technical support in Mechanized Tunneling Projects; Design of Underground Works and Special Foundations.

### TUNN3L – Hochtief-Vinci Joint Venture – Copenhagen City Ringen metro extension of Sydhavnen

Copenhagen, Denmark

Tunnel Engineer; (Contract work)

09/2020 – 09/2021

Main assignments: Supervision and work preparation of Secondary Grouting injections, Lining Repair works, assembly/dismantling operation of TBMs and related plants and utilities, construction of 1 Cross Passage; assistance in work preparation of TBM interferences at Stations Break in/out; 2 EPB TBM Data Management and analysis; preparation of TBM Mechanical Availability and Productivity/Progress reports; assistance to design coordination of 1 Cross Passage and evaluation of TBM excavation parameters; Grout Plant Operation Supervision, grout testing and mix design evaluation; submittals; subcontractors and suppliers outreach and comparison.

### Freelance Professional – Tunneling

Milan, Italy

Consulting activities for underground works

04/2020 – 08/2020

Part Time assistance to Pro Iter S.r.l for technical issues related to TBM excavation and design modification of Cross Passages and Exploratory Tunnel enlarged sections at the Brenner Base Tunnel Project.

### Lane Salini Impregilo – Three Rivers Protection and Overflow Reduction Tunnel 3RPORT

Fort Wayne, IN, USA

Tunnel Engineer; (Contract work)

02/2018 – 03/2020

Main assignments: Technical Supervision of TBM Excavation and support to Tunnel Crews; Slurry TBM data management and analysis; TBM Daily-Weekly-Monthly Reports editing; Slurry Treatment Plant and Grout Plant operational and lab tests data management and analysis; temporary structures design; TBM cutters wear monitoring; tunnel face and muck mapping; segmental lining damages monitoring and analysis; submittals; subcontractors and suppliers outreach and comparison; Tunnel Rescue Team member; miscellaneous work to assist production and plant departments.

### Seli Tunneling Denmark, Salini Impregilo Group – Grand Paris (Metro Projects)

Paris, France

Technical Office Engineer; (Contract work)

07/2017 – 02/2018

Main assignments: Collaboration with Salini Impregilo Bids Office for Metro Lines 14, 16 and 18; Technical Proposals (methods and drafting) in relation to TBM tunnels and Underground Works.

### Seli Tunneling Denmark, Salini Impregilo Group – Copenhagen City Ringen (Metro Project)

Copenhagen, Denmark

Technical Office Engineer; (Contract work)

06/2016 – 02/2018

Main assignments: EPB TBM excavation monitoring and data analysis, in soft and contaminated soils (Benzene, Ammonia and Chlorinates); submittals; segmental lining installation monitoring, quality inspections and repair works supervision; bi-component backfilling grout test sampling and results analyses.

3 months of Master Traineeship in OHS Department - Main assignments: Tunnel, Shaft and Yard inspections; safety inductions; air quality and air flow monitoring; accidents and incidents investigation; Fire and emergency drills coordination; Risk assessments; First Aider.

### Pro Iter S.r.l.

Milan, Italy

Junior Geotechnical Engineer; (Freelance Professional)

01/2015 – 03/2016

Main assignments: Design of Underground Works and Special Foundations; Project and Mass Haulage planning; Slope Stability and Rock Fall analyses; Brenner Base Tunnel Final Design editing/reviewing and geomechanical risk assessment.

## ENGAGEMENTS

**SIG Young Member** (Italian Tunneling Association, ITA-AITES Group)

Italy

Participation to Working Group 2 and 14 activities, guidelines editing, and research studies.

05/2016 – now

## PUBLICATIONS

2020, WTC - 3RPORT-Slurry TBM Operation in Difficult Ground Conditions.

2019, RETC - 3RPORT Decision-Making during Tunnel Construction.

2017-2019, SIG Working Group 2 - Research - Damages of segmental lining (guidelines for design, construction, and service).

2017, WTC - Copenhagen Cityringen: Passage with minimum cover under historical building - compensation and jet grouting.

2017, WTC - Copenhagen Cityringen: Shield blockage events - causes, management, and solutions.

2015, IAGIG - Comparative analysis between Barton and Hoek-Brown geomechanical characterization.

## ACADEMIC AND PROFESSIONAL QUALIFICATIONS

Master in Business Engineering, Construction and Oil&Gas Sector – Direxta – Construction Business School

Manchester, UK - 2016

Professional State Qualification – Civil and Environmental Engineering (Ordine degli Ingegneri di Milano)

Milan, Italy - 2015

Master's degree, Civil Engineering - Geotechnics – Politecnico di Milano

Milan, Italy - 2014

Bachelor's degree, Civil Engineering – Politecnico di Milano

Milan, Italy - 2012

## KEY SKILLS & COMPETENCIES

English – C1; French – B1; Spanish – A2

**Computer:** TPC Tunnelsoft, VMT, Autocad, MS Office suite within Project, Tilos, Primavera P6 (Basic), SAP2000, Deltek Acumen Risk (Risk Management), RocFall and Slide (Slope Stability Analysis), Paratie Plus (Retaining Walls), RockLab, PowerBi.