

PERSONAL DETAILS & CONTACT

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PROFESSIONAL EXPERIENCE

since 2026 Equi Bridges Ltd.
Senior Bridge Engineer, Specialist in Steel Bridges

since 2000 University of Buenos Aires, Argentina
Professor for Steel and Composite Bridges, Fracture Mechanics, Soil Mechanics and Foundations

since 1997 EEPP Consulting S.R.L., Buenos Aires, Argentina
Director, Specialist in Structural and Forensic Engineer

1998 - 2008 Assistance professor for Foundations, University of Buenos Aires, part-time

2005 - 2006 Assistance professor for Concrete Structures, University of Belgrano, part-time

2006 Lecturer for Corrosion and Protection of Steel Structures, Argentine Association of Structural Engineers (AIE)

SELECTED PROJECTS

2024 - 2025 Structural retrofitting of steel bridge Ciudad de la Paz addressing fatigue-induced failures in tension members, Buenos Aires, Argentina
Structural evaluation of redundancy under various local failure scenarios, complemented by fracture mechanics analyses to achieve a minimum remaining service life of 30 years

2021 - 2024 Belgrano South Railway Viaduct section Taborda - Constitución, Buenos Aires, Argentina
Basic and detailed design
4 km long, double-track viaduct, post-tensioned concrete box- girders of 26.1 and 33.9 m typical spans with precast segments

2022 - 2023 Railway Bridge over Sali River, Tucumán, Argentina
Fracture mechanics analysis and structural retrofitting of 560 m long bridge built in 1889, made of puddled iron, strengthening of the non-weldable lower chords of the 28 sections of 20 m length using bolted elements

2022 Desfiladero Bayo pipeline suspension bridge, Neuquén, Argentina
Structural verification using a non-linear FE models for cable systems, towers, deck and foundations, aeroelastic analysis, rehabilitation of the 108 m span steel bridge with strengthening of the deck

EDUCATION

1990 - 1998 Studies in Civil Engineering, University of Buenos Aires, Argentina

AFFILIATIONS

since 2024 PIARC (World Road Association), Technical Committee of Bridges

since 2021 IABSE (International Association for Bridge and Structural Engineering), Founding member and Chair of Argentinian National Group

since 2005 AIE (Argentine Association of Structural Engineers)

since 1998 CPIC (Professional Council of Civil Engineering Argentina), No. 15702

SELECTED PUBLICATIONS

2023 Polimeni, M.E.
Point Pleasant “Silver” Bridge
Chapter in “Case Studies on Failure Investigations in Structural and Geotechnical Engineering”, IABSE Bulletins CS4

2020 Polimeni, M.E.
Diagnosis and Rehabilitation of Steel Railway Bridges
XXVI Argentine Conference on Structural Engineering, Argentine Association of Structural Engineers (AIE)

2017 Polimeni, M.E.
Analysis of the Reliability of Steel Structures Subjected to Cyclic Loading
XXIII Argentine Conference on Structural Engineering, Argentine Association of Structural Engineers (AIE)

FURTHER TECHNICAL QUALIFICATIONS

since 2025 Member of the Scientific Committee, IABSE Congress Incheon 2026

since 2025 IABSE Academy Professor, Forensic Structural Engineering Course

since 2019 Coordinator of the drafting team of the CIRSOC Steel Bridge Regulation Project

2022 Notable Structure Award “Eng. José Luis Delpini” Biennium 2021-2022, Mitre Railway Viaduct, Argentine Association of Structural Engineers (AIE)

2017 Lecturer for Diagnosis and Rehabilitation of Steel Railway Bridges, Argentine Chamber of Construction (CAMARCO)