CURRICULUM VITAE MARTIN EDUARDO POLIMENI

PERSONAL INFORMATION

Name and Surname:	MARTIN EDUARDO POLIMENI
Nationality:	Argentinian
Date of birth:	July 9, 1971 (Federal District)
DNI Nº:	22.297.240
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Private Address:	Old Man Nº 704 (1625) Loma Verde, Escobar.
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Work Address:	Faculty of Engineering. University of Buenos Aires. Av. Las Heras 2214, Autonomous City of Buenos Aires, Argentina.
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File (FIUBA):	150.332

Professional Registration: Professional Council of Civil Engineering (CPIC) No.: 15.702.

Plenary Member of the Association of Structural Engineers (AIE).

ACADEMIC TRAINING

1990-1998	Faculty of Engineering. **University of Buenos Aires**.
	Start of Studies Date: March 1990
	Study Completion Date: February 26, 1998
	Title: **Civil Engineer**.

LANGUAGES

English : Complete Professional Competence.

Spanish : Native language.

BACKGROUND IN TEACHING

IN FACULTY OF ENGINEERING UBA

2017 - current	**Professor (postgraduate)**: FRACTOMECHANICS IN STRUCTURAL ENGINEERING. Department of Constructions and Structures of the Faculty of Engineering of the University of Buenos Aires.
2017 - current	**Professor (postgraduate)**: STEEL AND MIXED BRIDGES. Department of Constructions and Structures of the Faculty of Engineering of the University of Buenos Aires.
2008 – 2008	**Professor (postgraduate)**: FRACTURE MECHANICS IN CIVIL ENGINEERING. Department of Stability of the Faculty of Engineering of the University of Buenos Aires.
2000 - 2018	**Assistance professor**: FOUNDATIONS (74.01), Department of Constructions and Structures of the Faculty of Engineering of the University of Buenos Aires.

IN OTHER UNIVERSITIES AND INSTITUTIONS

2004 – 2006	**Assistance professor**: SOIL MECHANICS. Faculty of Engineering of the University of Belgrano.
2004 – 2006	**Assistance professor**: FOUNDATIONS I. Faculty of Engineering of the University of Belgrano.

2005 – 2006	**Assistance professor**: FOUNDATIONS II. Faculty of Engineering of the University of Belgrano.
2005 – 2006	**Assistance professor**: CONCRETE I. Faculty of Engineering of the University of Belgrano.
2005 – 2006	**Assistance professor**: CONCRETE II. Faculty of Engineering of the University of Belgrano.
2009 – 2011	**Assistance professor**: METAL STRUCTURES II. Army Technical Higher School (Faculty of Civil and Military Engineering).
2000 – 2008	**Assistance professor**: SOIL MECHANICS. Army Technical Higher School (Faculty of Civil and Military Engineering).
2000 – 2008	**Assistance professor**: FOUNDATIONS I. Higher Technical School of the Army (Faculty of Civil and Military Engineering).
2000 – 2008	**Assistance professor**: FOUNDATIONS II. Army Technical Higher School (Faculty of Civil and Military Engineering).

IN NON-ACADEMIC AREAS

2017	**Course**: Diagnosis and Rehabilitation of Steel Railway Bridges. Argentine Chamber of Construction (CAMARCO).
2006	**Course**: Corrosion and Protection of Steel Structures. Association of Structural Engineers (AIE).

BACKGROUND IN INSTITUTIONAL MANAGEMENT

2023 - current	President of the 28th Structural Engineering Conference of the Association of Structural Engineers.
2021 - current	Founding Member and Chairman of the IABSE national group.
2021 - 2022	Secretary of the Board of Directors of the Association of Structural Engineers.
2019 - current	Coordinator of the drafting team of the CIRSOC Steel Bridge Regulation Project.
2015 - current	Collaborator of the drafting team of CIRSOC Regulations 801, 802 and 804.
2011 - 2012	Member of the Board of Directors of the Association of Structural Engineers.
2010 - 2013	Director of the IE Magazine of the Association of Structural Engineers.
2009	President of the Organizing Commission of the Seminar “Diagnosis and Repair of Structures” by the Association of Structural Engineers.
2008 – 2009	Member of the Board of Directors of the Association of Structural Engineers.
2007	Member of the Organizing Commission of the II Symposium “Steel in Construction” organized jointly by the Association of Structural Engineers, ILAFA and IAS.

AWARDS

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

DIRECTED / EVALUATED THESES

2020 – 2021	Civil Engineering Degree **Thesis (FIUBA).** Thesis student: Ricardo Mietta . Thesis title: Ultra High Performance Concrete (UHPC) in the repair/rehabilitation of existing Reinforced Concrete structures. Role: Jury.
2018 – 2019	**Specialization Thesis for** Specialization in Railway Engineering (FIUBA). Thesis student: Francisco Arroyo. Thesis title: Fractomechanical Study of Old Railway Bridges. Role: Director.

2019 – 2020 **Specialization Thesis for** Specialization in Railway Engineering (FIUBA).
Thesis student: Mariana Palacios.
Title of the thesis: Inspection Protocol for Railway Structures.
Role: Director.

PUBLICATIONS AND RESEARCH WORKS

Polimeni ME, 2022. Author of Chapter 12, Point Pleasant "Silver" Bridge, of the publication "Case Studies on Failure Investigations in Structural and Geotechnical Engineering".

Polimeni ME, 2020. Diagnosis and Rehabilitation of Steel Railway Bridges. In the Annals of the XXVI Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). Virtual event, Argentina, May 10 to 14, 2020.

Polimeni ME, 2018. Miter Line Railway Viaduct - CABA. In the Annals of the XXV Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 4, pp. 20. Resistencia, Chaco, Argentina, September 26 to 29, 2018.

Polimeni ME, 2016. Structural Rehabilitation of Steel Railway Bridges. In the Annals of the XXIV Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 55, pp. 14. Buenos Aires, Argentina, September 28 to 30, 2016.

Polimeni ME, 2014. Partially Retractable Roof - Arena Parque Roca. In the Annals of the XXIII Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 30, pp. 16. Buenos Aires, Argentina, September 17 to 19, 2014.

Polimeni ME, 2014. Analysis of the Reliability of Steel Structures Subjected to Cyclic Loading. In the Annals of the XXIII Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 31, pp. 19. Buenos Aires, Argentina, September 17 to 19, 2014.

Polimeni ME, 2012. Expansion of the Pacífico Railway Bridge. In the Annals of the XXII Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 5, pp. 13. Buenos Aires, Argentina, September 5 to 7, 2012.

Polimeni ME, 2010. Rotating Road Bridge over the Riachuelo. In the Annals of the XXI Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 71, pp. 20. Buenos Aires, Argentina, October 6 to 8, 2010.

Polimeni ME, 2010. Rehabilitation of the Pueyrredón Viejo Bridge. In the Annals of the XXI Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 70, pp. 21. Buenos Aires, Argentina, October 6 to 8, 2010.

Polimeni ME, 2008. Aesthetics and Statics – A Buberian Interpretation. In the Annals of the XX Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 25, pp. 19. Buenos Aires, Argentina, October 15 to 17, 2008.

Polimeni ME, 2008. Acceptance of Mechanical Defects in Structures. In the Annals of the XX Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 23, pp. 20. Buenos Aires, Argentina, October 15 to 17, 2008.

Polimeni ME, 2006. Welded Crane Girders. In the Annals of the XIX Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 68, pp. 20. Mar del Plata, Argentina, October 5 to 7, 2006.

Polimeni ME, 2006. Incidence of Height on the Shear Resistance of Reinforced Concrete Beams. In the Annals of the XIX Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 42, pp. 20. Mar del Plata, Argentina, October 5 to 7, 2006.

Polimeni ME, 2006. The Fatigue Phenomenon in Reinforced and Prestressed Concrete Beams. In the Annals of the XIX Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). No. 41, pp. 20. Mar del Plata, Argentina, October 5 to 7, 2006.

Polimeni ME, 20 04. Repair of a Steel Structure Road Bridge. In the Annals of the XVIII Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). Buenos Aires, Argentina, September 15 to 17, 2004.

Polimeni ME, 2002. Rehabilitation of the Marcial Candioti Suspension Bridge. In the Annals of the XVII Argentine Conference on Structural Engineering. Association of Structural Engineers (AIE). Rosario, Santa Fe, Argentina, September 4 to 6, 2002.

SPEAKER AT SPECIALIZATION CONFERENCES

2021	**Conference**: Forensic Structural Engineering – Case Studies. SteelTalks . Steel University (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Collapses and Failures of Structures and Lessons Learned. SPIA College of Civil Engineers – Panama. (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies. CONEIC – Peru. (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies. College of Civil Engineers of Oruro - Bolivia. (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies. International Congress of the Costa Rican Association of Structural and Seismic Engineering (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies. IABSE Argentina NG – Argentina. (Lecturer).
2021	**Conference**: Forensic Structural Engineering in Bridges. CIEIC – Peru. (Lecturer).
2021	**Conference**: Forensic Structural Engineering in Steel Bridges. AMIVTAC - Chiapas. (Lecturer).
2021	**Conference**: Design, Construction and Erection of Steel and Mixed Viaduct Bridges. Costa Rican Association of Structural and Seismic Engineering (Lecturer).
2021	**Conference: Design, Construction and Assembly of Pre- and** Post-tensioned Concrete Bridges and Viaducts. College of Engineers of Peru - National Council (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies. Steel University . (Lecturer).
2021	**Conference**: Diagnosis, rehabilitation, Inspection and Maintenance of Railway Bridges and Steel and Mixed Roads, College of Engineers of Peru – National Council. (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies of Bridge Collapses and Failures. Argentine Highway Association. (Lecturer).
2021	**Conference**: Forensic Structural Engineering – Case Studies. College of Engineers of Peru - National Council. (Lecturer).
2020	**Conference**: Use of Steel in Bridges and Viaducts. AU of Chile, ICHA, ALACERO, CCI - Chile. (Lecturer).
2020	**Conference**: Construction Process of Precast Elevated Viaducts and Bridges as Response to Speed Up the Evolution of the Construction Industry due to the Pandemic. Indian Construction Week 2020. CIDC and IndSTT.
2020	**Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. ICCA – Colombia. (Lecturer).
2020	**Conference**: Design, Construction, Transportation and Assembly of Pre- and Post-tensioned Concrete Bridges and Viaducts. Santiago Metro – Chile. (Lecturer).
2020	**Conference**: Design, Construction, Transportation and Assembly of Pre- and Post-tensioned Concrete Bridges and Viaducts. AGIES – Guatemala. (Lecturer).
2020	**Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. AGIES – Guatemala. (Lecturer).
2020	**Conference**: Design, Construction, Transportation and Erection of Pre- and Post-tensioned Concrete Bridges and Viaducts. AFE – Uruguay. (Lecturer).
2020	**Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. AFE - Uruguay. (Lecturer).
2020	**Conference**: Design, Construction, Transportation and Assembly of Pre- and Post-tensioned Concrete Bridges and Viaducts. AMIVTAC – Chiapas. (Lecturer).
2020	**Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. AMIVTAC – Chiapas. (Lecturer).

2020 **Conference**: Design, Construction, Transportation and Erection of Pre- and Post-tensioned Concrete Viaducts. Concrete and Construction. ExpoConstructivo COEC-SUR – Bolivia 2020. (Lecturer).

2020 **Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. Tunnels and Bridges. ExpoConstructivo COEC-SUR – Bolivia 2020. (Lecturer).

2020 **Conference**: Design, Construction, Transportation and Erection of Pre- and Post-tensioned Concrete Viaducts. II National Concrete and Construction Symposium. ExpoConvial – Peru 2020. (Lecturer).

2020 **Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. VI International Bridge Symposium. ExpoConvial – Peru 2020. (Lecturer).

2020 **Conference**: Design, Construction, Transportation and Erection of Pre- and Post-tensioned Concrete Viaducts. Argentine Highway Association. (Lecturer).

2020 **Conference**: Design, Construction, Transportation and Erection of Pre- and Post-tensioned Concrete Viaducts. Latin American Association of Railways and Development of Railway Human Capital. (Lecturer).

2020 **Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges. Latin American Association of Railways and Development of Railway Human Capital. (Lecturer).

2020 **Conference**: Rehabilitation, Inspection and Maintenance of Steel and Mixed Bridges" Latin American Steel Association. (Lecturer).

2020 **Conference**: Forensic Structural Engineering. Latin American Steel Association. (Lecturer).

2019 **Conference**: Railway Viaducts San Martín and Mitre Lines, CABA. Civil Engineering Professional Council (CPIC). (Lecturer).

2019 **Conference**: Railway Viaducts San Martín and Mitre Lines, CABA. Latin American Railway Association (ALAF). (Lecturer).

2019 **Conference**: Railway Viaducts San Martín and Mitre Lines, CABA. Regional Congress of Non-Destructive and Structural Testing (CORENDE 2019). (Lecturer).

2018 **Conference**: Miter Line Railway Viaduct, CABA". XXV Argentine Conference on Structural Engineering (AIE). (Lecturer).

2017 **Conference**: Diagnosis and Rehabilitation of Metallic Railway Bridges. Latin American Railway Association (ALAF). (Lecturer).

2017 **Conference**: Presentation on the fatigue chapter in steel and composite bridges. 26 Presentation days of the new CIRSOC Regulation 801 and 802 for bridges. Argentine Highway Association. (Lecturer).

2016 **Conference**: Diagnosis and Rehabilitation of Steel Railway Bridges. Argentine Chamber of Construction. (Lecturer).

2016 **Conference**: Diagnosis and Rehabilitation of Steel Railway Bridges. Jujuy College of Engineers. (Lecturer).

2016 **Conference**: Diagnosis and Rehabilitation of Steel Railway Bridges. Latin American Steel Association (ALACERO). (Lecturer).

2016 **Conference**: Structural Rehabilitation of Steel Railway Bridges. XXIV Argentine Conference on Structural Engineering (AIE). (Lecturer).

2014 **Conference**: Partially Retractable Roof - Parque Roca Arena. XXIII Argentine Conference on Structural Engineering (AIE). (Lecturer).

2014 **Conference**: Analysis of the Reliability of Steel Structures subjected to Cyclic Loads. XXIII Argentine Conference on Structural Engineering (AIE). (Lecturer).

2013 **Conference**: Behavior of Steel – New Design Philosophy. Invitation to the Steel Structures Course of the Specialization in Structural Engineering of the Faculty of Exact Sciences, Engineering and Surveying of the National University of Rosario. (Lecturer).

2012 **Conference**: Rehabilitation of Emblematic Bridges Built in Steel. Association of Structural Engineers and Faculty of Engineering of the Universidad del Comahue. (Lecturer).

2012 **Conference**: Expansion of the Pacífico Railway Bridge. XXII Argentine Conference on Structural Engineering (AIE). (Lecturer).

2011 **Conference**: Rehabilitation of Emblematic Bridges Built in Steel. Sub-Management of Bridges and Viaducts of the National Directorate of Roads. (Lecturer).

2011 **Conference**: Behavior of Steel – New Design Philosophy. Invitation to the Metal Structures Course of the Specialization in Structural Engineering of the Faculty of Exact Sciences, Engineering and Surveying of the National University of Rosario. (Lecturer).

2010 **Conference**: Rehabilitation of Emblematic Bridges Built in Steel. Association of Structural Engineers (AIE) and Department of Constructions and Structures of the Faculty of Engineering of the University of Buenos Aires. (Lecturer).

2010 **Conference**: Rotating Road Bridge over the Riachuelo. XXI Argentine Conference on Structural Engineering (AIE). (Lecturer).

2010 **Conference**: Rehabilitation of the Pueyrredón Viejo Bridge. XXI Argentine Conference on Structural Engineering (AIE). (Lecturer).

2009 **Conference**: Behavior of Steel – New design philosophy. Invitation to the Steel Structures Course of the Specialization in Structural Engineering of the Faculty of Exact Sciences, Engineering and Surveying of the National University of Rosario. (Lecturer).

2008 **Conference**: Structural Architecture in Steel. IAS. BATIMAT 2008. (Lecturer).

2008 **Conference**: Aesthetics and Statics - A Buberian Interpretation. XX Argentine Conference on Structural Engineering (AIE). (Lecturer).

2008 **Conference**: Acceptance of Mechanical Defects in Structures. XX Argentine Conference on Structural Engineering (AIE). (Lecturer).

2008 **Conference**: Rehabilitation of Emblematic Structures Built in Steel. Workshop: Advantages of Steel in Structures and Construction Systems during the 17th. Lamination Conference and 4th. Steel Uses Conference. Argentine Institute of Steel IAS. (Lecturer).

2007 **Conference**: Behavior of Steel – New Design Philosophy. Invitation to the Metal Structures Course of the Specialization in Structural Engineering of the Faculty of Exact Sciences, Engineering and Surveying of the National University of Rosario. (Lecturer).

2006 **Conference**: Welded Crane Girders. XIX Argentine Conference on Structural Engineering (AIE). (Lecturer).

2006 **Conference**: Incidence of Height on the Shear Resistance of Reinforced Concrete Beams. XIX Argentine Conference on Structural Engineering (AIE). (Lecturer).

2006 **Conference**: The Fatigue Phenomenon in Reinforced and Prestressed Concrete Beams. XIX Argentine Conference on Structural Engineering (AIE). (Lecturer).

2004 **Conference**: Repair of a Steel Structure Road Bridge. XVIII Argentine Conference on Structural Engineering (AIE). (Lecturer).

2002 **Conference: Rehabilitation of the Marcial** Candioti Suspension Bridge. XVII Argentine Conference on Structural Engineering (AIE). (Lecturer).

PROFESSIONAL BACKGROUND (most relevant)

1997 - Current **Head of MEP&Co – Structural and Forensic Engineering.**

FEATURED PROJECTS:

1- Structural Executive Project of the Belgrano South Railway Viaduct section Taborda - Constitución – City of Buenos Aires. DYCASA (2021/24).

2- Executive Project for the structural rehabilitation of the railway bridge over the Salí River – Tucumán PANEDILE (2022/23).

3- Executive Project of steel railway bridges over the Arroyo Tortugas – Salta. SEMISA (2022).

4- Structural verification of the Desfiladero Bayo – YPF pipeline bridge. Suspended bridge with a span of 100 m - Neuquén. SERMAN (2020).

5- Executive Structural Project of the Paseo del Bajo Trinchera Sur (Section B) – City of Buenos Aires. IATASA (2017/19).

6- Structural Executive Project of the San Martín - CABA Railway Viaduct – City of Buenos Aires GREEN – ROTTIO UTE (2017/19).

7- Structural Executive Project of the Mitre Railway Viaduct. City of Buenos Aire. ROGGIO – CHEDIACK UTE SA (2017/19).

8- Structural diagnosis and retrofitting of a 53 m span steel railway bridge, branch 1 of the Belgrano Railway. Granadero Baigorria – Santa Fe. TFP (2016).

9- Technical team coordinator for the execution of the Structural Engineering for Paseo del Bajo viaduct – City of Buenos Aires. AUSA (2016).

10- Executive Project of the post-tensioned concrete railway bridge over the Arroyo de la Cruz. Exaltation of the Cross. Municipality of Exaltación de la Cruz (2016).

11- Director of the Executive Project (structures) of the linking of decks of the 25 de Mayo highway and the tunnel under the highway for the link between the AU 25 de Mayo and the AU Perito Moreno of the Metrobús in the City of Buenos Aires. DYCASA (2014/5).

12- Project Director for Executive Project of road bridges on General Paz Avenue and San Martín Avenue. – City of Buenos Aires. AUSOL (2014).

13- Project Director for the Inspection and Structural Analysis of a damaged railway truss bridge for its retrofitting, in the City of Rosario. Pampeano Railway (2012).

14- Director of the Executive Project for railroad grade crossings on Lorca and Argerich streets in the City of Buenos Aires. ELEPRINT – ECAS UTE (2013).

15- Project Director for the Executive Project (road, hydraulic, structures, electromechanical, etc.) of railway under-crossings on Lacroze Avenue in the City of Buenos Aires. CHEDIACK (2013).

16- Director for the Parque Roca Arena Roof Preliminary Project – City of Buenos Aires. MDU GCBA (2013).

17- Project Director for the Executive Project of pedestrian walkways on General Paz Avenue – City of Buenos Aires. AUSOL (2013).

18- Project Director for the Preliminary Project and ETIA (road, hydraulic, structures, electromechanical, etc.) of railway under-crossings on Lacroze and Beiró avenues in the City of Buenos Aires. AUSA (2012).

19- Head of Inspection of the Pacífico Bridge Expansion Work and the Soler under-crossing of the former San Martín railway line – City of Buenos Aires. AUSA (2011).

20- Head of Inspection of the Ibera under-crossing of the former FFCC Mitre-Tigre railway line – City of Buenos Aires. AUSA (2011).

21- Head of Inspection of the Besares under-crossing of the former Mitre-Tigre railway line – City of Buenos Aires. AUSA (2011).

22- Bridge Specialist for the preparation of the Preliminary Project for the call for bids for the construction of the new bridge over the Riachuelo, Roca – Patricios Avenues – City of Buenos Aires. AC&A – PÖYRY UTE (2010).

23- Director of the Preliminary Project and Inspection (road, hydraulic, structures, electromechanical, etc.) of the expansion of the AUSA Pacífico Bridge – City of Buenos Aires. AUSA (2010).

24- Director of the Preliminary Project and Inspection (road, hydraulic, structures, electromechanical, etc.) under-crossings railways on Ibera, Besares, Soler, Empedrado, Marcos Sastre and Aizpurúa streets of the City of Buenos Aires. AUSA (2010).

25- Study for the improvement of the lateral defense system of urban highways – City of Buenos Aires. AUSA (2009).

26- Tender Project for the installation of access ramps to the pedestrian bridge on Lugones Av. at the Scalabrini Ortiz Train Station – City of Buenos Aires. AUSA (2009).

27- Study of lateral defenses of highways of the North Access and General Paz Avenue – City of Buenos Aires. AUSOL (2009).

28- Inspection of Works for the Retrofitting of the Pueyrredón Viejo Bridge – City of Buenos Aires. AUSA (2009).

29- Detail engineering of steel structures corresponding to a 50 m high weighing tower and storage hoppers. Height 44 m – Villa Gobernador Gálvez Terminal – CARGILL. BALPEGO (2008).

30- Total Executive Project of Transfer Galleries of up to 50 m span between support struts and 30 m high Weighing Tower, for Terminal Timbúes – LDC – Santa Fe. BALPEGO (2007).

31- Executive Project for the Retrofitting of the Pueyrredón Viejo Bridge – City of Buenos Aires. Reinforcement and retrofitting of main longitudinal and transverse beams and deck. Rehabilitation of the lifting system powered by proportional hydraulic control and controlled by PLC. AUSA (2007).

32- Executive Project for the Retrofitting of the Bosch Bridge – City of Buenos Aires. General structural reinforcement (girders and deck). Structural composition of existing steel girders with new precast slabs through shear connectors. New lifting system composed of hydraulic traction cylinders synchronized by proportional hydraulics. Maneuver control PLC. City of Buenos Aires. GCBA (2007).

33- Executive Project for a cable-stayed pedestrian bridge with a total length of 165 m, with a central span between 50 m towers. It is located at the intersection of Dorrego and Av. Figueroa Alcorta – City of Buenos Aires. AUSA (2007).

34- Peer review of the civil installations (concrete and steel structures) of the new rolling mill at the Villa Constitución Plant – Santa Fe. ACINDAR. (2006 – 2007).

35- Executive Project of an industrial building 162 m long, 22 m wide. It has two cranes acting simultaneously with a lifting capacity of 15 t for the expansion of the Puerto Madryn Plant – Chubut. ALUAR (2006).

36- Executive Project of an industrial building with frames in orthogonal directions with spans of up to 36 m and 26 m separation between them, for the expansion of the Puerto Madryn Plant – Chubut. ALUAR (2006).

37- Executive Project of Boarding and Transfer Galleries, pedestrian walkways, etc. at Terminal Ramallo BUNGE – Buenos Aires. BALPEGO (2005).

38- Verification by the gas pipeline finite element method. Calculation of longitudinal and circumferential stresses generated in the lowering maneuver of the existing gas pipeline, coinciding with the new Cildañez reliever – City of Buenos Aires. AUSOL (2004).

39- Fractomechanical calculation, welding procedures, heat treatment program to measure residual welding stresses and monitoring program using NDT for a 30.00 m span crane girder in a steel plant – Santa Fe. SIDERAR (2004).

40- Calculation of steel structure for candy distribution plant. City of Buenos Aires. – City of Buenos Aires. TINIGAL (2003).

41- Project of steel bridge structures linking the two El Faro towers in Puerto Madero – City of Buenos Aires. IMZAMA (2003).

42- Platform project for the assembly of the bridges from the previous point – City of Buenos Aires. IMZAMA (2003).

43- Verification of the steel bridge structure over the GUAR – AIKE – Santa Cruz for approval by the National Highway Directorate (DNV), for the transportation of extraordinary cargo (74 t total weight) by special vehicle. COAMTRA (2002).

44- Verification of dynamic wind action on highway lighting pole due to abnormal movements of it – Buenos Aires. AUSOL (2002).

45- Erection engineering of structures and cables of the Suspension Bridge mentioned in the next point – Santa Fe. CCI (2001 - 2002).

46- Executive Project for the Suspension Bridge over the Setúbal Lagoon – Santa Fe. Total light 295.4 m divided into three sections of 73.85 m, 153.37 m, 67.85 m. Mixed bridge with lower funicular and vertical suspensions. Foundations with large diameter piles (1.80 m). Geometric non-linear analysis of cables. Calculation of the deck structure of 1.30 m high steel girders and reinforced concrete slab with transverse beams (A – 20 - DNV). Calculation of towers and cable suspension frames. Calculation and verification by MEF of cable anchoring masses. Verification by FEM of machined parts (forks, blocks (cable terminals), cable meeting nodal plates, bolts, tower and frame supports, etc.). CCI (2000 - 2001).

47- Partial retrofitting project for the La Noria Bridge – City of Buenos Aires. AUSOL (2001).

48- Verification by the Finite Element Method of base plate and anchor bolts for communication tower 100 m high and 180 t of traction. GUZMÁN NACICH (1999).

49- Calculations for bidding study for the Suspension Bridge over the Setúbal Lagoon – Santa Fe. CCI (1999).

50- Calculation of silo structure (silage product: resins) of 500 and 1000 m3 for an industrial chemical plant – Entre Ríos. IPP (1999).

51- Calculation of prestressed lower strap system for counter-cambering bridge crane with permanent deformation of its crane support beams – City of Buenos Aires. REGMA (1999).

52- Verification using the Finite Element Method oriented to Soil Mechanics, of different sections of the tunnel and stations for the bidding analysis of the H Subway line – City of Buenos Aires. CCI (1999).

53- Verification by the Finite Element Method of the sheets with openings of the silo roofs for service overloads and vacuum pressure due to emptying. SECIN (1998).

54- Calculation of a floating launch ramp (stinger) measuring 15.00 m wide by 45.00 m long, formed by a network of pipes. It is attached by joints to a pontoon, by which it pivoted when the pipes were weighted. It was used to launch protection blankets against erosion from the cover of the Subfluvial Tunnel – Santa Fe. SALVAMAR (1998).

55- Structure calculation for a chimney 60 m high and 1.60 m in diameter, without stays, for an industrial plant. Verification using the Finite Element Method of the sections of the chimney, and its reinforcements, in which connections arrive – Buenos Aires. TYCSA (1998).

56- Calculation of gantry with overhead crane for lifting rotary presses in Diario Clarín facilities – City of Buenos Aires. TYCSA (1998).

57- Calculation of crane base for lifting the drilling shield of the Saavedra-Morón tunnel – Buenos Aires. Wayss & Freytag (1998).

58- Calculation of silo plant (silage product: alumina derivatives) with diameters between 6 m and 9 m and heights of up to 22 m. SECIN (1997).

59- Verification by the Finite Element Method of the container tank for transporting liquids and its support structure, in its different states of load, (e.g. sudden braking). SECIN (1997).