

## **CURRICULUM VITAE'S SUMMARY**

### **JOSÉ ROBERTO PINTO DA SILVA**

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### **SUMMARY OF SKILLS**

Professor of Electrical Engineering

Teacher in graduation and postgraduation of Electrical Engineering, with focus on the following disciplines: Electric Power System, Linear Control Systems (Control and Servomechanisms), Control Systems applied to Electrical Power Generation and Transmission, Control System of the Excitation of Synchronous Generators, Local Control System of the Velocity of Synchronous Generators, Electromechanical Stability of Electrical Power Systems, Renewable Energies, and Generation's Dynamics.

Author and co-author of technical articles, refreshing through participation in Seminars, Congresses, courses, and technical activities at Cigre Brasil.

In the classroom, I seek to link and balance the academic teachings and the applications of this knowledge to the professional activities.

Experience as Adviser of graduation projects, member of Examination Boards at UFPR and UTFPR, as well as experience in elaboration of exams for nationwide tenders. Experience as member of the Committee of Project Analysis of R&D (Research and Development) at Companhia Paranaense de Energia.

Senior Engineer, specialist in Electrical Power Systems and Power Plants Synchronous Generators.

Professional with a well-established path in a company of the sector of electrical power generation and power transmission; technical practice, leadership and management in various areas: Operation Planning of Electrical Power Systems, Expansion Planning for the Transmission of Electrical Power Systems, Operation of the Power Plants of Copel Geração, and Generation Maintenance Engineering.

Management of the Research and Development (R&D) project; first in the world, defined under requests of ANEEL PD-06491-0287/2012 – Technical and Commercial Arrangement of Distributed Electrical Power Generation from Biogas of Residual Biomass from Pig Farming in Rural Lands in the City of Entre Rios do Oeste do Paraná.

Participation in the Elaboration of the 10-year Transmission Plan of Brazil, alongside the Ministry of Mining and Energy, to determine the evolution of the system of electrical power transmission in Brazil, in a 10-year term.

Teamwork skills, most often being in a supervision position in professional situations.

International professional experience in project presentations and technical visits to electrical power companies: New York Power Pool, Orange & Rockland, Ohio Edison, Tennessee Valley Authority, Georgia Power Company, Harris Corporation Control Division, Motorola, GSD & M Advertising Agency, Delf Computer Corporation e Administracion Nacional de Eletricidade.

Participation in international courses: English Course, as an Award received as manager of the relevant Research and Development project, London/UK, (2018), “Advanced Leadership Seminar”, Haggai Institute, Maui Island, Hawaii/USA, (2001) and “Managing in a Global Environment” Course, The University of Texas, Austin/USA.

Self-employed Diving Instructor for Tourism and Recreation, SCUBA, certified by Professional Diving Instructors Corporation, PDIC, Pennsylvania/USA.

## **PROFESSIONAL REGISTRATION AT CREA/PR – 6653-D**

### ***LATTES CURRICULUM -***

**<http://lattes.cnpq.br/9257650962986363>**

## **EDUCATIONAL BACKGROUND**

PhD in Electrical Sciences and Engineering, Universidade Federal de Itajubá, Itajubá/MG, from March/2010 to September/2014.

MBA in Business Economic, FAE – Faculdade Católica De Administração e Economia, Curitiba/PR, from March/1999 to December/1999.

MBA in Business Direction, PUC-PR – Pontificia Universidade Católica do Paraná and The University of Texas, Austin/USA, from August/1992 to May/1993.

MSc. In Electrical Engineering, UFSC – Universidade Federal de Santa Catarina, Florianópolis/SC, from March/1984 to February/1986.

Graduation in Electrical Engineering, UFPR – Universidade Federal do Paraná, Curitiba/PR, from March/1973 to December/1977.

Intermediate level in English

Some courses for professional qualification and development: Team Management, Optimization of Teamwork, Advanced Leadership Seminar, Energy Quality, Managers Seminar of COPEL, Advanced Education Seminar, Economic Evaluation of Electrical Power Systems, Neural Networks and its Ancillary, Techniques – Application to Power Systems, Globalization of COPEL with the Economy, Institutional Changes, Fuzzy Logics, and others.

## **PROFESSIONAL BACKGROUND**

## **Copel Geração e Transmissão S/A**

Regular employee, under Brazilian Labor Laws, of a Company of Mixed Economy

From January of 1978 to December of 2019

- Manager / Supervisor and Engineer and Senior Engineer in various departments, as follows:  
Operations Planning of Electrical Power Systems – Division Manager of System Analysis  
Planning of Transmission Expansion of Electrical Power Systems – Supervisor of the Area of the Planning of Transmission Expansion  
Operations of the Power Plants of Copel Geração S. A. – Senior Electrical Engineer  
Maintenance Engineering of the Generation – Supervisor in the Area of Electrical Maintenance of the Generation  
Research and Development – Senior Electrical Engineer and member of the Committee of Proposals Analysis of Research and Development
- Head of Electrical Studies for planning the operational launch of new power plants, transmission lines of electrical power and substations.
- Setting of Rules and Instructions for the operation of Electrical Power Systems
- Setting and adjustment of systemic electrical protections of the system of generation and transmission of electrical power.
- Performance analysis and adjustment of the systems of generation and transmission of electrical power.
- Yearly electrical studies, alongside the Ministry of Mining and Energy of Brazil, to determine the evolution of the system of electrical power transmission in Brazil, in a 10-year term, entitled 10-year Transmission Plan of Brazil
- Participation in Electrical Studies, conducted yearly to determine the evolution of the system of electrical power transmission in the State of Paraná
- Supervision of electrical maintenance of machines of electrical power plants of Copel Geração e Transmissão S.A
- Manager and supervisor of the upgrading of machines in electrical power plants of Copel Geração e Transmissão S. A
- Manager of the Research and Development (R&D) project, defined under requests of ANEEL PD-06491-0287/2012 –

Technical and Commercial Arrangement of Distributed Electrical Power Generation from Biogas of Residual Biomass from Pig Farming in Rural Lands in the City of Entre Rios do Oeste do Paraná (a pioneer project in the world).

- Member of the Committee of Project Analysis of R&D of Copel Geração e Transmissão S. A
- Author, co-author and participant in Seminars of Institute of Electrical and Electronics Engineers - IEEE, International Council on Large Electric Systems – CIGRE and Technical Gatherings of Companhia Paranaense de Energia Elétrica.
- Rapporteur of CIGRÊ – Brazil, National Seminar of Electrical Power Production and Transmission – SNPTEE.
- Member of the Technical Committee of Symposium of Specialists in Electric Operational and Planning - CIGRÊ
- Instructor of internal courses at Companhia Paranaense de Energia Elétrica e Copel Geração e Transmissão, to qualify Electrical System Operators and to develop the electrical engineers of the company.

### **Federal University of Paraná (Universidade Federal do Paraná)**

Federal Public Servant, Assistant Professor, Part-time basis, 20 hours

August of 1978 to October 2019.

- Associate Professor of the Master and PhD Course in Electrical Engineering of UFPR
- Part-time Teacher of the graduation course in Electrical Engineering, with focus on the disciplines Electric Power System, Linear Control Systems (Control and Servomechanisms), Control Systems applied to Electrical Power Generation and Transmission and Electric Machines.
- Member of Examination Boards at UFPR
- Deputy Coordinator of the Electrical Engineering course for one term
- Recognition as Paranymp, Patron, Class Name and Honored Professor in the graduation course of Electrical Engineering

**Positivo University (Universidade Positivo)**

Professor hired to teach a Course Module  
August of 2016 to September of 2016.

- Professor of the Post-graduation course, in the Module:  
Renewable Energies.