

Joelcio Alfonso Aguilar

Contact Information:

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 - **Location:** Santos, São Paulo, Brazil (Relocation available)
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Professional Summary

Senior Electrotechnical Designer with over 25 years of proven experience in the design, maintenance, and management of electrical infrastructure in **Low Voltage (LV)** and **Medium Voltage (MV)**. Expert in developing innovative technical solutions for industrial, commercial, residential, and healthcare sectors. Demonstrated ability to coordinate complex projects, optimize energy processes, and ensure compliance with international technical standards (**IEC, ISO**). A results-oriented professional with excellent problem-solving skills and priority management.

Professional Experience

ONESTOP SERVIÇOS ELETROTÉCNICOS LTDA

Senior Electrotechnical Designer / Electrotechnical Technician | *March 2014 – Present*

- **Comprehensive Design:** Developed complete electrical projects for LV and MV systems, including **substations** (pole-mounted and sheltered), building and residential installations, single-line/three-line diagrams, and material lists, ensuring full regulatory compliance.

- **Protection and Safety Systems:** Designed lightning protection systems (**LPS**), closed-circuit television (**CCTV**), and fire detection and alarm systems (**FDAS**).
- **Healthcare Sector:** Executed detailed design projects for healthcare units, integrating **Medical IT systems**, generator sets, and structured cabling in accordance with hospital safety standards.
- **Maintenance and Asset Management:** Managed preventive and corrective maintenance for a **Small Hydroelectric Power Plant (SHPP)** of 750 kW and a 40 km internal distribution network, enhancing system reliability through the installation of disconnectors and advanced protection schemes.
- **Energy Efficiency:** Implemented energy monitoring and management systems (**WebEnergy** platform for Schneider Electric), optimizing consumption and reducing operational costs.
- **Technical Training:** Trained auxiliary personnel on basic electricity principles, electrical safety, and proper use of technical equipment.

PGMAK Projetos e Gerenciamento

Senior Electrotechnical Designer | *July 2021 – April 2023*

- **Specialized Healthcare Facility Design:** Sized and designed electrical systems for Healthcare Facilities (HCF), from preliminary studies to final executive projects.
- **Infrastructure and Calculation:** Performed complex electrical calculations, sizing of conduits, LV/MV feeders, and backup power systems (UPS/Generator Sets).
- **Technical Detailing:** Developed layouts for technical rooms, transformer substations, and technical lighting systems.

SENAI Empresa MS

Specialized Technician – Standards and Consulting | *July 2020 – April 2022*

- **Technical Consulting:** Conducted inspections and prepared technical reports for the adaptation of machinery and facilities to occupational safety standards (equivalent to **ISO/EN**).

- **Legal Compliance:** Managed notifications from regulatory bodies, ensuring the regularization of physical installations and industrial processes.

Schneider Electric Brasil

Service Provider (Technical Consultant) | July 2017 – July 2019

- **Energy Management:** Provided operational technical support focused on optimizing energy consumption through data analysis on the WebEnergy platform.

Netsolutions – Expernet Telemática Ltda

Technical Designer | January 2012 – February 2014

- **Project Development:** Prepared technical documentation, wiring diagrams, grounding systems, and lighting design projects for office buildings.

Technical Skills

Area	Specific Skills
Design	LV/MV Systems, Substations, Electrical Panels (MCC/QGBT), Single-line/Three-line Diagrams.
Special Systems	Medical IT, LPS (SPDA), CCTV, Structured Cabling, Generator Sets.
Maintenance	Preventive/Corrective Maintenance, Transformers, Motors, Hydroelectric Plants.
Standards	In-depth knowledge of IEC, ISO, ABNT (NR10, NR12, NR35).
Software	AutoCAD, Revit (Basic), Eplan P8 (Basic), WebEnergy, MS Office.

Education

- **Electrotechnical Technician** | *Instituto Paula Souza ETEC Aristóteles Ferreira* (2011 – 2012)
 - **Electronics Technician** | *Instituto Monitor* (2001 – 2003)
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Languages

- **Portuguese:** Native
 - **Spanish:** Advanced (C1)
 - **English:** Intermediate (B1)
 - **German:** Beginner (A1)
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Certifications and Courses

- **Solar Photovoltaic Energy:** Design and Installation (In progress - Udemy).
- **EPLAN Electric P8:** Advanced course for panel builders (In progress - Udemy).
- **Electrical Safety:** NR10 and NR10 Complementary Certifications (Electrical Power System).