

# João Setubal

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TECHNOLOGY | ELECTRICAL | AUTOMATION | INFRASTRUCTURE | GENERATORS | CONTROLS

Professional with a career focused on **Clinical and Dental Engineering**, with strong experience in **maintenance, safety, reliability, and technological management of medical-hospital equipment**, always aligned with technical standards, best healthcare practices, and patient safety.

Experienced in **preventive and corrective maintenance** of medical devices, including **electrosurgical units, infusion pumps, electrocardiographs, multiparameter monitors, pulmonary ventilators, anesthesia workstations, and steam autoclaves**, with solid expertise in functional testing, technical inspections, failure analysis, and disposal criteria.

Skilled in **medical equipment metrology**, performing **calibration, traceability, performance and reliability testing**, as well as extensive experience in **thermal qualification of autoclaves, washer-disinfectors, heat sealers, and ultrasonic cleaners**, ensuring process validation according to current standards and hospital quality control requirements.

Strong background in **electrical engineering, automation, and IT**, applied as strategic support to clinical engineering, including **electrical safety (NR10), work at height (NR35), aerial work platforms (AWP/PTA), electrical panel maintenance, hospital building infrastructure, computer networks**, and **administrative automation using Excel, VBA, and Macros**. Basic programming knowledge in **Python, C++, and JavaScript** for technical analysis, data organization, and process improvement.

Additional knowledge in **hospital refrigeration systems, generator sets, capacitor banks, and critical infrastructure**, contributing to operational continuity in healthcare environments. Highly technical, analytical, and improvement-oriented professional, capable of integrating **clinical engineering, electrical systems, automation, and IT**, delivering **risk reduction, increased operational reliability, and technological efficiency** in hospitals, medical clinics, and dental facilities.

## Complementary Education | Ongoing Courses

ArkMeds – Clinical and Hospital Engineering

- **Electrosurgical Unit (40h)**  
Principles of operation, cutting and coagulation modes, electrical safety, clinical application, and risks.
- **General Maintenance of Electrosurgical Units (40h)**  
Fault diagnosis, functional testing, cable and accessory inspection, disposal criteria.
- **Infusion Pumps (40h)**  
Pump types, alarms, calibration, performance testing, patient safety.
- **Electrocardiograph Maintenance (40h)**  
Signal acquisition, filters, cables, electrodes, failure analysis, functional tests.
- **Multiparameter Monitor Maintenance (40h)**  
ECG, SpO<sub>2</sub>, NIBP, temperature, capnography, alarm testing, reliability.
- **Pulmonary Ventilator Fundamentals (40h)**  
Ventilation modes, sensors, valves, breathing circuits, operating principles.
- **Practical Training in Pulmonary Ventilators (40h)**  
Configuration, operational testing, failure analysis, safety in critical environments.
- **Anesthesia Workstation Maintenance (40h)**  
Pneumatic systems, vaporizers, ventilation, alarms, anesthetic safety.
- **Understanding Steam Autoclaves (40h)**  
Sterilization principles, cycles, common failures, best practices, regulations.
- **Metrology Applied to Medical Equipment (40h)**  
Calibration, traceability, measurement uncertainty, regulatory compliance.
- **X-Ray Fundamentals (40h)**  
Physical principles, radiation safety, system components, regulatory basics.
- **Thermal Qualification of Autoclaves (40h)**  
Thermal distribution, heat penetration, cycle validation, standards.
- **Thermal Qualification of Washer-Disinfectors (40h)**  
Thermal mapping, process validation, quality control.
- **Thermal Qualification of Heat Sealers (40h)**  
Temperature, pressure, and time control, seal integrity.
- **Thermal Qualification of Ultrasonic Washers (40h)**  
Thermal validation, cleaning efficiency, critical parameters.

## Academic Background

Electrical Engineering – IETAAM – completed

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## Professional Experience

### **MSI Hospitalar (PJ) — Aug 2025 – Present** **Clinical and Dental Engineering Technician**

Maranhão, Brazil | On Demand

Clinical Engineering | Medical Equipment Maintenance | Hospital Engineering | Maintenance Management | Commissioning | Preventive & Corrective Maintenance | Electrical Safety | Asset Management | Specialized Technical Support | ANVISA Compliance | NBR IEC 60601 | Hospitals & Clinics

### **SYSAutotech — Jan 2025 – Present** **Junior IT/OT Project Analyst**

Lisbon, Portugal | Remote

Systems Integration | Industrial Networks | Automation | OT Security | Project Management | SCADA Monitoring | IIoT | Remote Technical Support

### **Grupo Mateus — 2024 – 2025** **Maintenance Technician**

Electrical | Automation | Civil | Hydraulics | Refrigeration | Metalwork | Welding | Carpentry

### **Universidade HN Trader — 2023 – 2025** **IT Technician** | Remote

AnyDesk | Microsoft Office | Windows | macOS | Drivers | Technical Support | Zoom | Customer Support | Hardware | Software | Linux

### **UPA – Emergency Care Unit — 2022 – 2024** **Administrative Assistant**

IT | Networks | Customer Service | NIR | Social Services | SAME | Microsoft Office | Administration

### **Imperasol Engenharia — 2021 – 2024** **Facilities Assistant**

IT | Networks | Warehouse | Customer Service | Sales | Administration | Fleet Management | Electrical Systems | Drone Pilot

### **Suzano Pulp and Paper — 2021**

#### **Tax Documentation Assistant (Outsourced – MA SMARCARO)**

Microsoft Office | Electronic Invoices (NFe) | DACTe | Transport Manifests | Auditing | Administration

### **10th Regional Civil Police Department (10° DRPC) — 2019 – 2020**

#### **Ad Hoc Clerk**

Administrative Support | Incident Reports | Microsoft Office | Official Letters | Memorandums