

# João Silva

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## Work Experience

- 2022-2023 *Trainer in the IT Technician Course - Network Installation and Management*, Talentus, Coimbra. **Units** : (0838 - Linux - administration, 0839 - Linux - network services, 0840 - Web servers, 0841 - Web Servers and Internet Access).
- 2018-2020 *Teacher of the Professional Technical Course in Electricity, Automation and Computers*, Technological and Professional Institute of Figueira da Foz. **Units**: (4564 - Maintenance management-introduction, 6008 - Analysis of direct current circuits, 6009 - Magnetism and electromagnetism, 6010 - Alternating current, 6011 - Semiconductors, 6012 - Bipolar transistor, 6025 - Combinational circuits, 6075 - General electrical installations, 6040 - Occupational health and safety).
- 2004-2005 *Commercial Manager*, PT Comunicações, Coimbra
- 1987 *Technician in Electrical Industrial Systems* , Electricity of Mozambique, Beira. **Project**: Electrical Network and Lighting System , Mouzinho de Albuquerque Park. **Supervision**: eng. Piére Menárd.

## Academic Background

- 2010 MSc IN ELECTRICAL AND COMPUTER ENGINEERING IN TELECOMMUNICATIONS ,University of Coimbra: **Thesis**: *Heating Tests in Electrical Cables*. **Disciplines**: (Antennas, Microwaves, Computer Applications for Engineering, Industrial Automation, Audio and Video Communication, Mobile Communications, Control, Business Creation and Management, Electronics I and II, Electronics for Telecommunications, Fundamentals of Communication Systems, Applied Electrical Engineering, Digital Systems Laboratory, Computational Mathematics, Electrical Materials and Thermodynamics, Mechanics and Waves, Waves and Propagation, Signal Processing, Computer Networks, Electrical Networks and Installations, Telecommunications Networks and Systems, Signals and Systems, Microprocessor Systems, Digital Communication Systems, Teletraffic Systems, Optical Transmission Systems, Operating Systems, Planning and Management Techniques, Information Theory and Coding, others )
- 1987 TECHNICIAN IN INDUSTRIAL ELECTRICAL SYSTEMS , Industrial and Commercial Institute of Beira, Mozambique

## Extracurricular Training

- 2021 SPECIALIZATION IN DISTANCE LEARNING (E-TRAINER)
- 2018 CERTIFICATION IN PEDAGOGICAL SKILLS, Conclusion, Coimbra
- 2004 OPERATING SYSTEMS AND NETWORKS ADMINISTRATION , Rumos Informática, Coimbra

## Modular Training

- 2021 TELEWORKING, Institute of Employment and Vocational Training
- 2019 ADVANCED EXCEL, Institute of Employment and Vocational Training
- 2019 COACHING, Institute of Employment and Vocational Training

## Technical Skills

- Network and Security Tools: Wireshark, Nessus, Nmap, Tcpdump, Snort, Kali Linux
- Programming: Python, Java, C/C++, PHP, Front-end technologies (HTML5, CSS, JavaScript), SQL, Shell scripting
- Databases: MySQL, PostgreSQL, MariaDB, SQL Server

- Data Visualization and Analysis: Matlab, Octave, RStudio, Excel, Google Sheets, ggplot
- Frameworks and Libraries: tidyverse, Ollama (LLMs)
- Version Control Tools: Git, GitHub
- Development and Testing Environments : VirtualBox, Visual Studio Code, Eclipse, NetBeans
- Simulation and Design Software: LTspice, PROTEL, DIALux
- Operating Systems: Linux/Unix, Windows
- VirtualBox

### **Self-Paced Online Courses**

2026-1-7 [CHATGPT FOUNDATIONS FOR TEACHERS - ISSUED BY OPENAI](#)

2025-6-26 [SIGNAL PROCESSING ONRAMP](#)

2024-9-29 [MATLAB ONRAMP AND PROBLEM SOLVING SCRIPTS](#)

2024-6-9 [INTRODUCTION TO IMAGE PROCESSING](#)

2023-9-15 [INTRODUCTION TO DEEP LEARNING](#)

2023-9-21 [INTRODUCTION TO APP BUILDING](#)

2022-5-24 [INTRODUCTION TO CIRCUIT SIMULATION](#)

2022-5-24 [SIMULINK ONRAMP](#)

### **Other Interests**

*Watercolor Painting, Rowing*

(João C. Silva)