João Silva

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URL: https://joaosoaresesilva.github.io/

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Professional 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).

2021-2022   *Trainer of the Alternating Current module, e-Learning, I.E.F.P.*

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   *Vocational Technician in Electrical 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

Self-Paced Online Courses

2025-3-25   Introduction to Wireless Communications, https://matlabacademy.mathworks.com/progress/share/report.html?id=036bdd51-7650-4b40-9ca9-dda5f0cfd9a0&

2024-9-29   MATLAB Onramp and Problem Solving Scripts, https://matlabacademy.mathworks.com/progress/share/certificate.html?id=ae2e7096-91ff-4827-8c07-6885827ff584&

2024-6-9 INTRODUCTION TO IMAGE PROCESSING, https://matlabacademy.mathworks.com/progress/share/report.html?id=c9b24992-b614-48d2-a06f-0546c9d9d412&

2024-6-5 INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING, https://matlabacademy.mathworks.com/progress/share/certificate.html?id=5cce993d-1378-4817-a016-cfdc909eef1f&

2023-9-15 INTRODUCTION TO DEEP LEARNING, https://matlabacademy.mathworks.com/progress/share/report.html?id=a773357e-1315-4d27-8bdc-ff2af04983a1&

2023-9-21 INTRODUCTION TO APP BUILDING, https://matlabacademy.mathworks.com/progress/share/report.html?id=8db10b82-5beb-4543-87c7-c8e13c5f7ccf&

2022-5-24 INTRODUCTION TO CIRCUIT SIMULATION, https://matlabacademy.mathworks.com/progress/share/report.html?id=8e8b78c7-bd81-496c-b869-37bb71db1a39&

2022-5-24 SIMULINK ONRAMP, https://matlabacademy.mathworks.com/progress/share/report.html?id=9a64293c-a2bd-48b0-b613-dc2d2b0ed99d&

Languages and Technical Skills

English (Fluent), Portuguese (Native), Spanish (Intermediate)

- 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

Other Interests

Watercolor Painting, *Rowing*

(João C, Silva)