

Manuel Cobos Robles

Energy Engineer

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manuel-cobos-robles
Personal website

PROFESSIONAL SUMMARY

Energy Engineer with experience in designing and installing photovoltaic systems, as well as skills in the Python programming language and PLC programming. Proficient in Spanish and English, and with basic knowledge of Portuguese.

EXPERIENCE

Domtesol

Energy Engineer

January 2023 — June 2023

Malaga, Spain

- › Design and installation of photovoltaic systems of different sizes and complexities.
- › Coordination of projects, including planning, budget management, vendor selection, and supervision of installation team work.
- › Development of customized solutions to meet specific client needs, including systems with storage batteries, and grid-connected systems.

Universidad de Malaga

Automation Engineer

September 2022 — September 2023

Malaga, Spain

- › Installation of a sensor system in an aerothermal heat pump.
- › Integration of sensor data with Simatic S7-1500 PLC, incorporating Modbus RTU and TCP/IP protocols.
- › Development of a program in TIA Portal v17 for real-time data visualization on a HMI screen and storage in a database.

EDUCATION

Universidad de Malaga

Graduated in Energy Engineering

Sept. 2017 — Sept. 2023

Malaga, Spain

Universidad de Sevilla, Mobility Program

Energy Engineering

Sept. 2021 — June. 2022

Seville, Spain

Universidade Federal Fluminense, Mobility Program

Electrical Engineering

Aug. 2022 — Dec. 2022

Rio de Janeiro, Brazil

TRAINING & CERTIFICATION

Coursera

- › **Python Data Structures**, University of Michigan.
- › **Applied AI**, IBM.

LANGUAGES

English

Cambridge B2 level.

Spanish

Native.

Portuguese

Basic portuguese due to university studies in Brazil.

PROJECTS

Design of a Cogeneration System in a Hospital

The objective of this project was to design a Combined Heat and Power system in a hospital to improve energy efficiency while meeting the hospital's energy demand requirements and reducing energy costs.

Automation using TwinCAT 3 software

The goal of this project was to automate multiple machines within a station of an automation process using TwinCAT 3 software on a Beckhoff PLC. The process included the transportation of a bearing, height measurement, rejection of those with undesired height, and final transfer to the next station.

SKILLS

Programming Language: Matlab, Mathematica, Python, C++, \LaTeX .

Engineering Software: Fluent, Engine Simulation, Autocad, Cype, PVsyst.

Databases/Technologies: MySQL, Anaconda, Visual Studio.

Office Suite: Microsoft Excel, Microsoft Word.