



# Manuel Campos Borrás

## HMI - SCADA ENGINEER

I have participated in real-world projects from the development phase through to on-site commissioning. I continue to learn and improve every day, with the goal of adding value to every project I undertake.

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## EDUCATION

### 2018 - 2023 BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONIC ENGINEERING

UDC (University of A Coruña)

### 2023 - PRESENT MASTER'S IN INDUSTRIAL COMPUTING AND ROBOTICS

UDC (University of A Coruña)

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## WORK EXPERIENCE

### 2024 - PRESENT

#### SCADA ENGINEER

- Integrated advanced HMIs using custom 3D images created in Blender and Photoshop, achieving highly visual and personalized operating environments.
- Designed, created, and manipulated simple databases in Microsoft SQL Server.
- Automated Excel sheets using macros and Python scripting.
- Automated repetitive tasks through PowerShell scripting.
- Redesigned the screen navigation system to be dynamic using VBScript, significantly reducing development time.

### DEC 2023 - JAN 2024

#### AUTOMATION ENGINEER

- University internship
  - Developed bidirectional communication via MQTT between smart cranes and a controller, using a server as an intermediary.
  - Troubleshooting, repair, and basic calibration of instrumentation equipment.
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## LANGUAGES

- Spanish | Native
  - English | B2
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## CERTIFICATIONS

- C Programming Hands-On Skills (Udemy)
  - Siemens Solutions Partner (Siemens S.A)
  - B2 (Trinity College)
  - Category B Driving License (DGT)
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## ABOUT ME

I am passionate about scripting in virtually any language, and I enjoy analyzing how to automate, simplify, or accelerate processes to deliver real value. I become deeply involved in every project and continuously look for ways to improve workflow. I like working in environments where this initiative is valued and where ideas can be proposed freely, always with respect, responsibility, and a clear understanding of authority and established procedures.

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**PROFESSIONAL  
PROJECTS****JUN 2025 – PRESENT**

WATER TREATMENT PLANT – GALICIA, SPAIN

**MAY 2025 – PRESENT**

ROLLING MILL – RIO DE JANEIRO, BRAZIL

**MAR 2025 – SEPT 2025**

ROLLING MILL – THESSALONIKI, GREECE

**OCT 2024 – MAR 2025**

BAR ROLLING MILL – RECIFE, BRAZIL

**FEB 2024 – SEPT 2024**

WIRE ROD MILL – ASTURIAS, SPAIN

**JUN 2024 – AUG 2024**

WATER TREATMENT PLANT – TENNESSEE, USA

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**PERSONAL  
PROJECTS****IOT – UNIVERSITY OF A CORUÑA**

DESIGN AND IMPLEMENTATION OF AN IOT SYSTEM USING MICROSOFT AZURE FOR THE MONITORING AND CONTROL OF LEVEL PROCESSES IN INDUSTRIAL PLANTS.

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**ADDITIONAL  
ACTIVITY****INSTRUCTOR – TEACHER TRAINING AND RESOURCE CENTER (CFR)**

XUNTA DE GALICIA

Delivered specialized training for secondary school teachers and other CFR instructors through project-based contracts, focused on:

- Theoretical and mathematical foundations of Machine Learning
  - Python development and programming
  - C programming
  - Design and development of electronics and programming projects using Arduino
  - Design and development of Machine Learning projects, including model training, validation, and evaluation using medium-sized datasets in Python, leveraging specialized libraries such as NumPy for numerical computation, Pandas for advanced data handling, Scikit-learn for model training and analysis, and Matplotlib for clear and structured data visualization.
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