

# EMILIO JESÚS HERNÁNDEZ SALAS

## Industrial Engineer

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github.com/emichester

## PROGRAMMING

MatLab Simulink Python

C++ Twincat 2/3 ROS

ROS2 Docker Bash/Shell

LaTeX VAL 3 Arduino

SQL Django HTML

CSS OpenModelica

Octave Unity C#

## TO HIGHLIGHT

Electronics Real Time

Computer Vision AI

Control

## SKILLS

Self-learning Broad-minded

Teamwork Communication

Innovative Leadership

Attention to detail Strategic

Proactiveness

## LANGUAGES

Spanish: **Native**

English: **Proficient user**  
(B2/C1)

French: **Speaking**

## ADDITIONAL

Driving licence: **B**

## ABOUT ME

*I am an engineer with a passion for the world of robotics, automation, computer vision, AI and all the new technologies that are emerging, with which we are able to go further and further. I enjoy teamwork and I always try hard to get the best results at work.*

## WORK EXPERIENCE

Systems Automation and Control Engineer  
| Alderan Control & Sistemas S.L.

Sept 2021 – present

Madrid, España

- Automation of industrial processes
- Information management through databases
- Programming of SCADAs
- SQL server assembly and field communication
- Programming of SQL/JSON communication bridge
- Manufacture of control cabinets
- Re-dimensioning of electrical control installation
- Successful R&D tasks for improvement in the budget offered to the client

Robotics, Computer Vision and Systems Automation  
| School of Industrial Engineering, University of Málaga

2020 – 2021

Málaga, España

- Collaborative project with the European Space Agency (ESA)
- Research and development using: systems engineering and automation, robotics, computer vision and artificial intelligence to design the control of embedded systems for future missions
- Work was carried out in particular for the proof of concept of the “Mars Sample Return” mission
- Creation of a system for detection/localisation of a specific object on the environment (simulation and finally integration in ExoTeR rover)
- See results in: [emichester.github.io](https://github.com/emichester)

## EDUCATION AND TRAINING

Graduated in Industrial Technologies Engineering  
| School of Industrial Engineering, University of Málaga

2016 – 2020

Málaga, España

- TFG: Identification of samples in images through Deep Learning for planetary exploration

Higher Technician in Administration and Finance (LOE)  
| IES Mar de Alborán, Estepona, Málaga

2014 – 2016

Estepona, Málaga