

# EMILIO JESÚS HERNÁNDEZ SALAS

## Industrial Engineer

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## PROGRAMMING

Python

C++

SQL

Spark

Keras

TensorFlow

VB

ROS

ROS2

Docker

Bash/Shell

Twincat 2/3

MatLab

Simulink

R

LaTeX

VAL 3

Arduino

Django

HTML

CSS

OpenModelica

Octave

Unity

C#

## TO HIGHLIGHT

Electronics

Real Time

Computer Vision

AI

Control

Big Data

Agile

Scrum

Business Intelligence

AWS

Microservices

## 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, Big Data 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

### Vision Systems Engineer

| CHEP

May 2023 – present

Madrid, España

- Development of state-of-the-art computer vision + ML software. Provide worldwide support to all the Vision Systems of plants. Apply predictive maintenance in plants using C++, Python and PowerBI. Promote Data Driven decisions and usage of ML on the company

### Assistant - Risk Advisory

| Deloitte

Jan 2022 – May 2023

Madrid, España

- Data Scientist, Data Analyst, Data Engineer and Business Analyst in the Data Governance/Exploitation application of SCIB Global. Senior Consultant for another project of Santander (VBA/Excel advanced analytics)

### Systems Automation and Control Engineer

| Alderan Control & Sistemas S.L.

2021 – 2022

Madrid, España

- Automation of industrial processes with PLCs and programming of SCADAs. Python - PLC - REST API communication bridge project. Manufacture of control cabinets / Re-dimensioning of electrical control installation. Successful R&D tasks generating savings for out clients and state-of-the-art solutions

### Robotics, Computer Vision and Systems Automation

| School of Industrial Engineering, University of Málaga

2020 – 2021

Málaga, España

- European Space Agency (ESA) project. R&D through systems engineering and automation, robotics, computer vision and ML. Creating a system for detection/localisation of a sample tube on the environment of Mars. PoC of the “Mars Sample Return” mission. Results in github web

## EDUCATION AND TRAINING

### Master's Degree in Artificial Intelligence

| VIU - Universidad Internacional de Valencia

2023 – 2024

- TFM: Crack detection in industrial timber boards using AI algorithms

### 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