

Joan Carrillo

FINAL-YEAR INDUSTRIAL COMPUTING & ROBOTICS ENGINEERING STUDENT AT UPV

Valencia, Spain

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Experience

AUTIS Ingenieros

Gandía, Spain

INDUSTRIAL ROBOTICS PROGRAMMER

Jun-Sep 2023 & Jun-Sep 2024

- Programmed industrial robots (KUKA, ABB, FANUC) using KUKASIM, RobotStudio, Roboguide.
- Worked on international projects for Tesla (Berlin and Austin), Jaguar (Birmingham), Toyota (San Antonio), and more.
- Integrated vision systems and optimized robotic cycles under real production constraints.

RBX Programming

Alfajar, Spain

ROBOTICS INTERN (400H)

Mar-May 2023

- Conducted virtual commissioning for Audi, Skoda, and Tesla using Process Simulate.
- Received a letter of recommendation for outstanding performance and initiative.

TECNOVILL SL

Beniflà, Spain

ELECTROMECHANICAL MAINTENANCE TECHNICIAN (SUMMER CONTRACTS)

Summers 2020-2022

- Supported PLC-controlled equipment as well as hydraulic and pneumatic systems.

Education

BSc in Industrial Computer Science and Robotics Engineering

Universitat Politècnica de València

2023 – 2026 (EXPECTED)

Alcoi, Spain

- Current GPA: 8.0 · Received 3 academic distinctions (Highest grade)
- Ongoing final degree project on autonomous UAV surface inspection using PID control and CNN-based defect detection
- 240 ECTS – European Credit Transfer System (full-time degree)

Higher Vocational Training in Industrial Automation and Robotics

IES Cotes Baixes

2021 – 2023

Alcoi, Spain

- GPA: 9.12 | Highest Distinction in Final Project
- 400h internship at RBX Programming

Intermediate Vocational Training in Electromechanical Maintenance

IES Joan Fuster

2018 – 2020

Bellreguard, Spain

Skills & Technical Knowledge

Mathematics	Engineering level · Dynamic robot control, state-space control, mathematical analysis
Robot Programming Software	Advanced · RobotStudio, KukaSim, Roboguide
Unity (C#)	Advanced · Digital twin simulations and physics-based robotic modeling
Python / Keras	Advanced · CNN design and training, custom architectures, dataset preprocessing, model evaluation
Computer Vision	Advanced · Industrial vision algorithms, CNN-based inspection, Detectron2
C++	Intermediate · Data structures, robotics- and control-oriented programming
ADA / SPARK	Intermediate · Structured programming and reliability-critical applications

Additional Information

- English level: B2 (Cambridge) · certificate in progress
- Driving license: Category B (valid in EU)