

# Joan Carrillo

FINAL-YEAR INDUSTRIAL COMPUTING & ROBOTICS ENGINEERING STUDENT AT UPV

Valencia, Spain

✉ (+34) 622159509 | 📩 joaneet27@gmail.com | 🗃 joanet27-root | 📱 joancarrillo27

## Experience

---

### AUTIS Ingenieros

INDUSTRIAL ROBOTICS PROGRAMMER

- 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.

Gandía, Spain

Jun–Sep 2023 & Jun–Sep 2024

### RBX Programming

ROBOTICS INTERN (400H)

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

Alfafar, Spain

Mar–May 2023

### TECNOVILL SL

ELECTROMECHANICAL MAINTENANCE TECHNICIAN (SUMMER CONTRACTS)

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

Beniflò, Spain

Summers 2020–2022

## 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)