Joan **Carrillo**

FINAL-YEAR INDUSTRIAL COMPUTING & ROBOTICS ENGINEERING STUDENT AT UPV

Valencia, Spain

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"Be the change that you want to see in the world."

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 — *Alfafar, 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 2 academic distinctions (Highest grade)
- Ongoing final project on AI-driven surface defect detection using Detectron2 and TensorBoard
- 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 · Vector and Euclidean spaces, discrete control, differential equations, Jacobian analysis, etc.
Unity (C#)	Advanced · Digital twin simulations and physics-based robotic modeling
Robot Programming Software	Advanced · RobotStudio, KukaSim, Roboguide
Computer Vision	Advanced · Industrial algorithms, AI-based inspection, Detectron2
ADA / SPARK	Intermediate · Structured programming and reliability-critical applications
C++	Intermediate · Data structures, robotics and control-oriented programming
Docker	Basic · Containerization and testing environments