

Contact

Email

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URLs

Portfolio: http://alvnf.github.io LinkedIn: linkedin.com/in/alvaro-

niquez-fernandez

Education

Bachelor's in Computer Science UCAM

2022 - 2025

Advanced Technician in Web Application Development

EIG Business School 2021 - 2022

Advanced Technician in Multiplatform **Application Development**

EIG Business School 2019 - 2021

Skills

- Languages:Python, C++, C#, JavaScript/TypeScript, Java, SQL
- Robotics: ROS2, Gazebo, OpenCV
- Software Dev: FastAPI, Docker, REST Git, Linux Tools: APIs, Unity,
- TensorFlow, Figma, Atlassian Confluence Methodologies: Agile,
- CI/CD

Language

- Spanish (Native)
- English (B2)
- German (B2)

ALVARO ÑÍGUEZ FERNÁNDEZ

Software Developer

ABOUT ME

RoboticsEngineeringIntern | Python · C++ · ROS2 · Docker · Git · OpenCV · CI/CD With practical experience in robotics, ROS2, and software development. I've built autonomous robots in Gazebo + ROS2, including a color-tracking bot, as well as a **Bluetooth-controlled** robot with **C++** and Web Bluetooth. I've also deployed intelligent systems with FastAPI, Docker, and OpenCV, and worked in Agile environments using Git and Confluence. Motivated to contribute to software architecture, deployment, and real-world robot optimization.

RELEVANT EXPERIENCE

ΜΔΡ. 2025

JUNE

2025

Intern VR Developer

Grupo Fuertes (Murcia, Spain)

- · Led an Agile dev team creating a VR training system using Unity and C#. Recreated realistic factory environments via
- · photogrammetry. Contributed to immersive system design and
- · cross-functional collaboration.

MAR. 2022

Intern Web Developer

T-Systems (Granada, Spain)

JUNE 2022

- · Created an internal seat reservation system using Python, JavaScript and SQL.
- Automated location detection of reservable areas via OpenCV and blueprint analysis

MAR. 2021

2021

Intern React Native Developer

Area F5 (Granada, Spain)

JUNE

- Built a React Native mobile app using OCR with Python +
- Implemented JS client and Python server communication via WebSockets.

PROJECT HIGHLIGHTS

- ROS2 Gazebo Robot: Designed a robot that tracks a colored ball in a simulated environment.
- Bluetooth-Controlled Robot: Programmed using C++ for motors and sensors; built a React interface with Web Bluetooth for live control.
- Greenhouse Forecasting System: Developed a geneticalgorithm-optimized LSTM model for temperature prediction. Deployed via FastAPI, with a real-time dashboard in JavaScript + HTML.
- Private Tutoring: Taught Python, JavaScript, and Java to individuals, reinforcing core software and algorithmic concepts.