Fidel González Leiva

Robotics and Automation Engineer | Software Developer

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I usually go wrong, but every time I make better mistakes

Professional Summary

I am an empathetic and passionate software developer with a deep love for technology and a strong drive for teamwork. With excellent leadership skills and assertiveness, I thrive in collaborative environments, consistently delivering innovative solutions while fostering a positive and productive team culture.

Education

2014–2017 College degree, UMA, Málaga, Electronic Robotic and Mechatronic Engineering 2017–2018 College degree, US, Sevilla, Electronic Robotic and Mechatronic Engineering 2018–2019 Master's degree, US, Sevilla, Electronic, Robotics and Automation Engineering

Experience

July 2022 - Software Developer, Bertrandt Group

May 2024 – Developed automotive-critical software using AUTOSAR and C++.

- Analyzed, implemented, and tracked low-level requirements.
- Extensively used git for the integration of highly dependent developments.
- Identified and resolved bugs through analysis of CAN, LIN, SOME/IP, and DLT traces.
- Worked under Agile methodologies (SCRUM)
- Technologies: C++, AUTOSAR, Python, Docker (under WSL), Bash and Wireshark.

June 2019 - Robotics Engineer | Software Developer, FADA-CATEC

- July 2022 MBZIRC 2020: Designed computer vision algorithms for aerial target interception.
 - **GAVIOTA:** Developed ground-based AI systems for aircraft detection.
 - DELOREAN: Collected and analyzed data for autonomous UAV operations in urban environments.
 - METRICS: Organized and evaluated an international championship on UAV navigation and defect detection.
 - Piloto5GAndalucia: Developed a drone swarm for real-time security tasks.
 - ASSISTANCE: Led a team developing multiple UAVs for disaster relief.
 - Technologies: C++, Python, ROS, OpenCV, Gstreamer, CUDA, Docker, Bash, embedded Linux distributions, image labeling tools and LATEX.

Languages

Spanish Native

English Cambridge B2 First Certificate

(last 3 years working mostly in English)

Certifications and Courses

2021	Docker Mastery: With Kubernetes + Swarm from a Docker Captain	Udemy
2022	Nanodegree in $C++$	Udacity
2023	Introduction to the AUTOSAR Classic Platform	dSpace

Interests

Playing flamenco guitar, cyber security, lock-picking and freestyle FPV drones

Publications

- [1] Manuel García, Rafael Caballero, Fidel González, Antidio Viguria, and Aníbal Ollero. Autonomous drone with ability to track and capture an aerial target. In 2020 International Conference on Unmanned Aircraft Systems (ICUAS), pages 32–40, 2020.
- [2] Fidel González, Rafael Caballero, Francisco J. Pérez-Grau, and Antidio Viguria. Vision-based uav detection for air-to-air neutralization. In 2021 IEEE International Symposium on Safety, Security, and Rescue Robotics (SSRR), pages 236–241, 2021.
- [3] Jorge Mariscal-Harana, Víctor Alarcón, Fidel González, Juan José Calvente, Francisco Javier Pérez-Grau, Antidio Viguria, and Aníbal Ollero. Audio-based aircraft detection system for safe rpas bylos operations. *Electronics*, 9(12), 2020.

Timeline of personal interest in technologies

