

# Abel Anaya Herrera

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I'm a Full Stack Software Engineer with more than 6 years of experience helping businesses turn ideas into real products. I've worked in senior engineering positions at organizations like Idneo, GMV and Indra. I'm also building Propertings, a SaaS platform for property rental management. Nowadays, I'm looking for new exciting projects where I can help ship innovative products.

## SKILLS

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- **Programming languages:** TypeScript, C, C++, Python, Bash.
- **Databases:** MySQL, PostgreSQL, SQLite.
- **Libraries and modules:** React, TailwindCSS.
- **Frameworks:** NextJS, Astro, NodeJS, Flask, Django, TensorFlow, RobotFramework, Unity (C testing).
- **Tools & Technologies:** Linux, Git, Docker, Jenkins, AWS, GitHub Actions, Machine Learning, Real Time Systems, Embedded Systems, PikeOS.

## PROJECTS

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### Propertings

A SaaS platform to make rental property management easier and accessible. Owners can manage listings, automate check-ins, create web pages for their properties, track tenants, and streamline administration in a single intuitive web app. Built with Next.js, PostgreSQL, and TailwindCSS.

### EGNOS V3 NLES

EGNOS V3 is the second generation of Europe's Satellite-Based Augmentation System (SBAS). It improves the accuracy, coverage and reliability of the GPS and Galileo global navigation satellite systems by providing augmentation data which strengthens positioning performance.

### Space Rider Flight Software

Space Rider is a uncrewed spaceplane aiming to provide the European Space Agency (ESA) with affordable and routine access to space. Space Rider has the potential to allow experiments in microgravity, such as exposure of materials to outer space and in-orbit validation of technologies, as well as deployment of small satellites. Space Rider's Flight Software is responsible of the autonomous management of GNC, subsystem management, command processing, and mission operations.

### ENCE V4

ENCE V4 is CAF SIGNALLING's next-generation railway interlocking system designed to ensure safe and efficient train operations by controlling track switches, signals, and train movements through automated logic that prevents conflicting routes and maintains railway safety standards.

### Easy Redmine Project Dashboard

Easy Redmine is a project management tool based on Redmine. This app features a dashboard that displays aggregated financial data from Easy Redmine APIs.

## EXPERIENCE

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### Freelancing & Propertings

Full Stack Software Engineer

Málaga, Spain

2023 - Present

- Built SaaS platform for rental property management ([www.propertings.com](http://www.propertings.com)) using Next.js and PostgreSQL.
- Delivered freelance projects including landing pages, dashboards, and automation tools with React, Next.js, and Python.
- Managed the full lifecycle: UX/UI design, backend architecture, deployment, and maintenance.

### Indra Espacio

Full Stack Software Engineer

Málaga, Spain

2023 - Present

- Led the development of MCIF, a real-time monitoring system for EGNOS satellite stations.
- Increased system monitoring performance by 70% through thread execution optimization.
- Introduced DevOps practices (Jenkins, Docker) to improve software quality and reliability.
- Mentored junior developers on software design and implementation.

### GMV Aerospace and Defense

Flight Software Engineer

Madrid, Spain

2021 - 2023

- Designed and implemented mission-critical flight software for ESA Space Rider.
- Owned architecture, requirements, ICD specification, and validation under ECSS standards.
- Supported team members and coordinated integration of critical system components.

### CAF SIGNALLING

Embedded Software Engineer

Madrid, Spain

2020 - 2021

- Developed safety-critical software for railway interlocking systems.
- Implemented CI/CD processes that reduced testing and release times.

### Idneo Technologies

Full Stack Software Engineer

Málaga, Spain

2019 - 2020

- Developed embedded software for automotive projects.
- Built web applications to automate internal workflows, saving teams hundreds of hours.

## EDUCATION

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### TECHNICAL UNIVERSITY OF MADRID (UPM)

Master's degree in Software for Embedded and Distributed Systems

Madrid, Spain

2020 - 2022

- Thesis focused on premature anomaly detection in industrial systems using machine learning.
- Specialized in distributed applications and real-time systems.
- Graduated with strong expertise in software reliability and scalability.

### UNIVERSITY OF MÁLAGA

Bachelor's degree in Electronics, Robotics and Mechatronics Engineering

Málaga, Spain

2015 - 2019

- Developed projects bridging embedded and web technologies.
- Specialized in multidisciplinary projects combining software and hardware
- Built a solid foundation in programming, systems design, and problem solving.

