

PABLO RAMOS

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 7+ years of experience specializing in C#, .NET, and full-stack development. Expertise in IoT systems, cloud computing (Azure AZ-900 certified), and CI/CD pipeline implementation. Proven track record delivering scalable solutions across defense, industrial, and agricultural technology sectors. Strong background in embedded systems, machine learning, and cross-platform mobile development. Currently based in Switzerland with EU/EFTA work authorization.

TECHNICAL SKILLS

Programming Languages

- **Expert:** C# (5+ years), Python (4+ years), Java (3+ years)
- **Proficient:** JavaScript, PHP, Matlab
- **Familiar:** C, C++, SQL, Shell scripting, HTML, CSS

Frameworks & Libraries

- .NET Framework, Flutter, Xamarin, Maui, Laravel, Ionic

DevOps & Cloud Technologies

- Docker, Jenkins, CI/CD Pipelines, Azure (AZ-900 Certified), IIS
- Git version control, automated deployment

Databases & Data Management

- PostgreSQL, SQL Server, database optimization

Specialized Technologies

- IoT development and sensor systems
- Machine learning and AI implementation
- Revit API, AutoCAD API
- Modbus protocols, Scanlab RTC controllers, Arduino microcontrollers
- Signal analysis and processing, Web services and REST APIs

Software Development Practices

- Clean code principles, Functional programming, Maintainable architecture
- Code reviews and quality assurance, Agile methodologies

- Full software development lifecycle (SDLC)

PROFESSIONAL EXPERIENCE

Software Engineer

Safran Vectronix (via Akkodis) | Heerbrugg, Switzerland | June 2023 - Present

- Develop and maintain C# software solutions for Hans defense systems project using .NET Framework
- Collaborate with cross-functional international teams to implement new features and system enhancements
- Participate in complete software development lifecycle from requirements analysis through deployment and ongoing support
- Conduct thorough code reviews ensuring adherence to coding standards, best practices, and security guidelines
- Investigate and resolve software defects through systematic debugging, maintaining optimal system performance and user satisfaction
- Contribute to technical documentation and knowledge sharing within the development team

R&D Software Engineer

FsGroup | Pamplona, Spain | June 2021 - June 2023

IoTGear Project (March 2022 - June 2023)

- Architected and developed full-stack agricultural monitoring system for crop sensors and analysis
- Built PostgreSQL backend with optimized data storage for sensor readings and analytics
- Designed and implemented RESTful API for real-time data access and system integration
- Developed cross-platform mobile applications using Flutter, Xamarin, and .NET MAUI
- Enabled farmers to monitor crop health, environmental conditions, and optimize irrigation schedules

APS Manufacturing Systems (June 2021 - June 2023)

- Programmed automated laser-welding systems for plastic packaging manufacture
- Implemented C# control software with IIS web services for production line management
- Integrated Modbus protocol communication for industrial equipment coordination
- Developed sequential inflation control systems for quality assurance

Smart Mirror Radar System (June 2021 - July 2021)

- Designed radar-based safety system for light vehicles to detect road hazards
- Developed Python backend for real-time signal processing and threat detection
- Created Ionic-based user interface for driver alerts and system configuration

Backend Software Engineer

Vanadys | Pamplona, Spain | January 2021 - May 2021

- Developed customer relationship management (CRM) system using Laravel framework
- Implemented PHP backend services with SQL Server database integration
- Optimized database queries and improved system performance
- Built RESTful APIs for frontend integration and third-party services

Developer & Test Engineer

Orbital Critical Systems | Pamplona, Spain | July 2019 - December 2020

Mercury Mission Systems International (July 2020 - December 2020)

- Performed comprehensive unit testing on C++ codebase for satellite tracking systems
- Enhanced GPS, Galileo, and GEO satellite measurement accuracy through rigorous testing
- Identified and documented software defects, collaborating with developers on resolutions

Beacon Frames - RAIL Project (March 2020 - July 2020)

- Developed and tested embedded C applications for Connecta-2 railway communication systems
- Ensured compliance with railway safety and communication standards

Axel Counter Project (March 2020)

- Developed train wagon coordination system for CAF using embedded C
- Implemented testing protocols for railway safety-critical systems

FAVIT - Clean Sky 2 Research (March 2020)

- Contributed to R&D testing compliance roadmaps for aerospace MISSION co-project
- Participated in validation of aviation safety standards

Kappa Project (January 2020 - February 2020)

- Developed automated checklist systems for quality assurance processes

CAF Modular Systems (September 2019 - March 2020)

- Designed and tested control systems using Matlab and Simulink
- Created simulation models for railway system validation

MST ATPs Eurofighter Simulator (July 2019 - September 2019)

- Developed automated test procedures (ATPs) using Python
- Validated flight simulator systems for defense applications

EDUCATION

Bachelor of Science in Telecommunications Engineering

UPNA University | Pamplona, Spain | Graduated: June 2019

Thesis: "Analysis of the Influence of the Positioning of the Reference Electrode on Electromyographic Signals"

- Conducted research on biomedical signal processing and electrode placement optimization
- Applied signal analysis techniques to improve EMG measurement accuracy

CERTIFICATIONS

Microsoft Azure Fundamentals (AZ-900)

Microsoft | 2020

Credential: youracclaim.com/badges/1e03aeae-6507-4f4a-98e4-a201fc5309ee

IBM Data Science Professional Certificate

IBM | 2020

Credential: docdroid.net/nckAFuf/net-gdoce-curso-del-sepe-pdf

Ethical Hacking Masterclass

JADA eLearning (Udemy) | 2020

Credential: udemy.com/certificate/UC-7cc04bd7-071b-4274-91bd-220a3d51f135

.NET Development Professional Course

Fórmate.es (SEPE) | 2019

LANGUAGES

- **Spanish:** Native (C2)
- **English:** Fluent (C1)
- **German:** Basic (A2 - Currently studying)
- **French:** Basic (A1)

PERSONAL PROJECTS

Arduino PCB Shield Communication Transceiver | 2018

- Collaborated with Santiago Led Ramos to design and develop custom Arduino expansion board
- Created PCB shield providing enhanced communication capabilities for microcontroller projects
- Project available: workspace.circuitmaker.com/Projects/Details/Pablo-Ramos/Shield

ADDITIONAL INFORMATION

- EU/EFTA Work Authorization (Swiss Ausweis B permit)
- Valid driver's license with personal vehicle
- Available for domestic and international travel
- HAREC Certificate holder
- CEPT T/R 61-01 license for amateur radio station operation
- Strong problem-solving and analytical skills
- Excellent team collaboration and communication abilities
- Passionate about continuous learning and emerging technologies