

ALEXANDRE ACEBEDO

PRINCIPAL EMBEDDED SOFTWARE ARCHITECT

ABOUT ME

Principal Embedded Software Architect who turns complex requirements into scalable, reliable products. I partner with product teams to deliver the right solution at the right time and thrive in collaborative, agile teams. I specialize in solving software problems, defining pragmatic architectures, and leading execution while continuously learning and mentoring. Focus areas: Software Architecture, Technical Leadership, and real time embedded systems.

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📍 Île-de-France, France

EXPERIENCES

PRINCIPAL EMBEDDED SOFTWARE ARCHITECT Qorvo - Paris - France

QORVO

Oct 2021 - Present

I am responsible for designing and architecting various parts of software running on UWB chips for consumer and industrial applications. More precisely, I design parts of the UWB stack compatible with various standards such as FiRa and IEEE 802.15.4z running on MCUs with Zephyr or FreeRTOS. I use requirements coming from customers and write specifications to guide the development teams before reviewing their implementation to ensure compliance with the design.

I also contribute to several parts of the software development process by deploying tooling such as development containers, static analysis and quality tooling.

EMBEDDED SOFTWARE ARCHITECT Thales - Gennevilliers - France

THALES

Mar 2016 - Sep 2021

I was responsible for designing, architecting, and developing a software waveform for avionics communication based on the SCA standard.

I oversaw the entire development process, from drafting the Software Design Documents based on the System Specifications to developing the software itself. Inspired by industry best practices, I improved development efficiency by implementing a continuous integration pipeline covering version control, delivery, and artifact storage. As a Scrum Master and Tech Lead, I guided and supported a team of nine software engineers.

INTRAPRENEUR - TAKEOFF Thales - Gennevilliers - France

takeoff

Nov 2017 - Oct 2021

I was one of the co-founders of TakeOff, an intrapreneurial startup that introduced new internal job opportunities, enabled peer networking, and empowered employees in pursuing their next career steps within Thales.

My role was twofold: on the technical side, I designed the solution architecture and APIs; on the business side, I co-led pitching, fundraising, subcontracting, and marketing efforts.

C++ LINUX/ANDROID SOFTWARE ARCHITECT ERCOM - Vélizy - France

ERCOM

Nov 2014 - Mar 2016

I worked on the server side of a secure communication system called Cryptosmart.

I implemented the cross-SIP server communication mechanism and refactored significant portions of the software to improve product performance. I also contributed to drafting the Software Design Documents based on the existing codebase.

From an organizational perspective, I initiated the team's transition to Agile methodologies.



LANGUAGES

French (native)

English (professional)

HOBBIES

Videogames

Cinema

Biking

Running

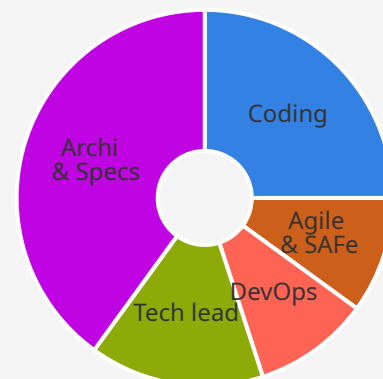
LINKS

🌐 linkedin.com/in/aacebedo

🐙 github.com/aacebedo

🌐 resume.acebedo.fr

Skillset use



REAL-TIME SOFTWARE ENGINEER

Société Générale - La Défense - France



Oct 2013 - Oct 2014

I developed connectors for several stock markets, working under strict performance constraints.

My main tasks were to implement C++ programs and test them to ensure compliance with the specifications published by the markets. This experience highlighted the importance of delivering products that meet high-quality standards.

EMBEDDED AND REAL-TIME SOFTWARE ENGINEER

Thales Communication - Gennevilliers - France

THALES

Mar 2010 - Oct 2013

I contributed to the European standardized waveform project (ESSOR).

My responsibilities included drafting software specifications and architecting a software radio protocol for the defense sector. The component-based design of this software required extensive real-time constraints and execution on embedded targets. This enriching experience also allowed me to collaborate with peers from diverse cultures and travel across several countries.

EMBEDDED AND REAL-TIME SOFTWARE ENGINEER

Thales Communication - Gennevilliers - France

THALES

Oct 2008 - Mar 2010

I was part of an R&D team responsible for developing a component-based framework called MyCCM.

My role was to evaluate and improve the framework for use in software radio products running on real-time operating systems (VxWorks, Linux variants).

EDUCATION & CERTIFICATIONS

DIGITAL TRANSFORMATION FACILITATOR CERTIFICATE

2018

ESCP Europe - Paris - FRANCE

ENGINEERING DEGREE

2005 - 2008

Major in embedded and real time software

UTBM - Belfort - FRANCE

SKILLS & PROFICIENCY

PROGRAMMING LANGUAGES

C/C++ Go Python Assembly (ARM) Rust

WEB LANGUAGES

HTML CSS/SCSS JS TypeScript

ORGANIZATION

Redaction of Specifications
Digital transformation
Technical leadership
Intrapreneurship

SOFTWARE METHODOLOGIES

SCRUM Agile & SAFe UML C4 model
GitFlow OO Programming Design patterns
System programming CI/CD Diataxis

TECHS, OSES AND STANDARDS

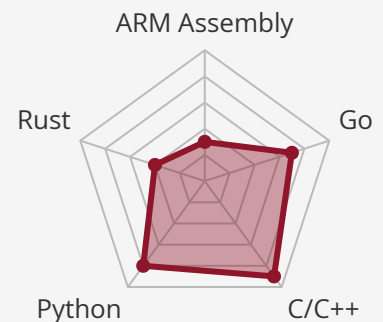
Linux Windows VxWorks FreeRTOS
ZephyrOS Docker/Podman
Hypervisors (Proxmox, VMWare ESXi, etc...) SCA
CCM CORBA Protobuf ASN1
OSI architecture UWB (FiRa, CCC) Kubernetes
Docker

DEVELOPMENT TOOLS

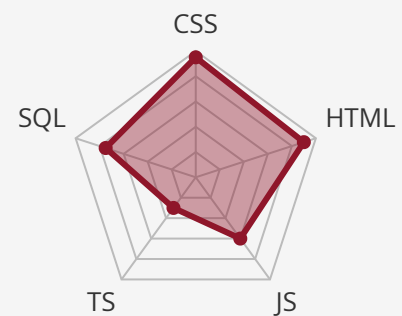
Git/Jujutsu Visual Studio Code
Google Test/Google Mock Valgrind Suite
Repo Gcov CMake Artifactory Conan
Clang tool suite
Development containers/Devpod West Nix
Helm/Kustomize

References available upon request

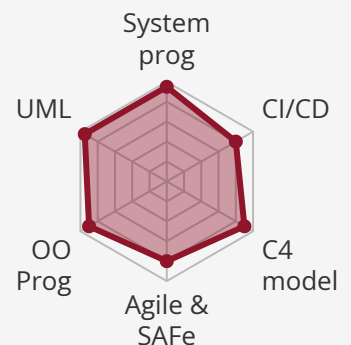
Programming languages



Web languages



Software methodologies



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