



Daniel Viaño

Senior C++ Software Engineer

Software developer with extensive experience in the aerospace sector, specifically in Air Traffic Management, Unmanned Aerial Vehicles, and Air Navigation systems. Complemented my aviation background with modern software development methodologies. This allows me to contribute to projects into different sectors such as Defense, where I currently work developing embedded software for handheld image acquisition devices.

Contact

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LinkedIn

<https://www.linkedin.com/in/daniel-viano/>

Area

St. Gallen, Switzerland

Education

2019

MSc Unmanned Aerial Systems

Universidad de Santiago de Compostela

2017

BSc Air Navigation Engineering

Universitat Politècnica Catalunya

Expertise

- C++, Qt Framework
- Embedded Systems
- Aviation, ATM, RADAR
- UAV, PX4, Avionics
- vim, Cmake, Git, Petalinux
- SCRUM, JIRA
- GitLab CI/CD

Languages

Spanish, Galician (native)

English (C2)

German (A2 - now learning)

Experience

May 2022 - Present

Akkodis - SAFRAN Vectronix I Heerbrugg, Switzerland

Embedded Software Developer

Developing the next generation of handheld image acquisition devices, which will succeed the battle-tested MOSKITO TI. As a SCRUM team developer, I perform tasks in:

- Application (C++, Qt, user interface, unit/acceptance testing, Python service apps).
- Low level (petalinux/yocto embedded linux, sensors and actuators integration).
- Gitlab CI/CD pipelines maintenance and system validation.

Mar 2020 - May 2022

Ad Maiorem Consulting - INDRA I Gijón, Spain

Air Traffic Control Software Developer

Developed surveillance software for Air Traffic Control systems.

Software development and maintenance for SACTA (Automatized System for Air Traffic Control) for the Spanish Air Navigation Service Provider as well as for several ITEC (interoperability Through European Collaboration) alliance members, using C++ and ADA.

Oct 2017 - Mar 2020

PildoLabs I Rozas Airport, Spain

Air Navigation Systems Engineer

Designed and developed systems for coordination between manned and unmanned aircrafts for Babcock Mission Critical Services (now Avincis).

Software development for air navigation systems, using Qt and C++. Sensors integration, testing and validation. Documentation and certification tasks for Civil UAVs Initiative. Developed an ADS-B + GNSS acquisition station for Business Factory Aero.

Mar 2017 - Dec 2017

EUROCONTROL I Brussels HQ, Belgium

Engineering Trainee

Performed PanEuropean study about continuous climb and descent operations (CCO, CDO). ADS-B data manipulation. Java software tool tuning and data validation.

Feb 2016 - Sep 2017

Born Positiu S.L I ESA-BIC, Barcelona, Spain

Android Developer

Implemented a driving support Android app in Java, extensively using GPS and RTK.

References

Pablo Ramos Lainez

Software Engineer, Akkodis

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Switzerland Residence Permit B

Driving License B

Others