Borin Kaduk Aguilar

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ABOUT ME

I am an aerospace engineer driven by the curiosity to understand systems, its structures, relationships and behaviors. My experience and interest in ATM systems have allowed me to:

- Understand EUROCONTROL's **business needs and limitations** and effectively translate them into functional and non-functional requirements.
- Apply industries best practices at EUROCONTROL following **BABOK guidelines** and **Agile frameworks**: Kanban and Scrum.
- **Industrialize** EUROCONTROL data products from concept to implementation (web applications, dashboards, reports, etc.).
- **Collaborate** with SQS, MNP network, MNP azure and NM REMEDY support to deliver **mission critical** applications.
- Effectively communicate with external and internal **stakeholders.**
- Deeply understand systems that support **ETFMS** (CCAMS, CASA, CACD, EAD and IFPS).

WORK EXPERIENCE

06/2021 – CURRENT Brussels, Belgium
ATM BUSINESS ANALYST EUROCONTROL

- Management of EUROCONTROL's enterprise data warehouse:
    - Industrialization of data products to different business units (ASU, Airports, CNS, AIU, ...)
    - Data integration from different systems, data transformation and data monitoring.
    - Modelling of data flows and complex business processes, using UML, Oracle data modeller, Visio and Enterprise Architect.
    - Translating business needs into technical documentation.
    - Investigation, data analysis and data quality checks to anticipate risks.
- Airport Corner project coordination and support:
    - Aeronautical Information Services provider for airports. Centralizing AIP and additional airport data into a single data platform (Strategic information, curfew hours, airport events, etc.)
    - Monthly coordination with NMOC internal stakeholders, to analyze and investigate airport events for each AIRAC cycle.
    - Automatizing Post-OPS feedback process for relevant airport events, involving operational analysis and airport function teams.
    - Network Operation Plan/Network Operations Report data provision.
- Acting Product Owner in OSSAI projects:
    - NOTAM AI: Enhancing NMOC NOTAM's system (REMEDY) with artificial intelligence. Liaisng with MNP network and architecture, MNP Azure, agency security and Remedy support.
    - Airports Slots: Monitoring tool used for compliance with EU Regulation 95/93.
    - OPLOG: Analyzing operational logs of ETFMS to assess delay of ATFM regulations.
    - Follow up and coordination of IT CHG requirements (firewall rules, forwarding rules, REST API certificates, etc.)
    - Design of architecture outline, data flows, creation of estimates and BRD, building the project roadmap and management of sprints.
- Streamline data governance processes to enhance data quality for reference datasets (ICAO doc 8585, 7910).
- Systematic review of CACD pre-validation process before new airspace designs are implemented into operations.
- STATFOR migration report for new cloud infrastructure.

05/2020 – 06/2021 Brussels, Belgium
RF ANALYST EUROCONTROL

- Support on the building of a pan-european CNS monitoring system (EMIT).
- Coordination of changes of EMIT's interface control document with hardware and software infrastructure providers .
- CNS data analysis of ADS-B messages, radar interrogations and transponder replies (EUROCAE ED-102B and RTCA DO-260C).
- Technical analysis on dedicated monitoring flights (1030/1090 MHz bands: occupancy, interrogation and reply rates, radar's MIP, etc.) to show compliance of ANSPs with EU regulation 1207/2011.
- Report on ADS-B In performance.

06/2019 – 10/2019 Girona, Spain
CAMO INTERNSHIP CENTERVOL

- Continuing Airworthiness management on CENTERVOL's helicopter fleet (SAR + privately owned).
- Issuance of EASA Form 15a and coordination task with helicopter mechanics.
- Management of aircraft parts inventory and coordination with suppliers.

04/2018 – 05/2019 Girona, Spain
AIRLINE GROUND AGENT LESMA HANDLING SLU

- Weight and balance computation.
- Servicing flights upon arrival and departure.
- Coordination with fuel and ground services.
- Ensuring minimum turnaround times, handling closure of flights.
- Baggage check-in and passenger check-in for Ryanair's passengers.

04/2017 – 05/2018 Playa de Aro, Spain
HOSPITALITY ESTABLISHMENT RECEPTIONIST GLOBAL MERIT SL

07/2016 – 08/2016 Playa de Aro, Spain
HOSPITALITY ESTABLISHMENT RECEPTIONIST APARTAMENTOS GOETTEN SL

EDUCATION AND TRAINING

Brussels, Belgium
MBA MANAGEMENT Solvay Business School

Level in EQF EQF level 7 ⎪ **Thesis** Systematic review of Eurocontrol's NMOC airspace pre-validation process

Castelldefels, Spain
AEROSPACE SYSTEMS DEGREE Universitat Politècnica de Catalunya

Level in EQF EQF level 6 ⎪

Thesis Analysis and optimisation of radio spectrum pollution on 1030/1090 MHz bands associated with mode S transponders

Sant Hilari Sacalm, Spain
TECHNOLOGIC'S BACCALAUREATE INS Anton Busquets i Punset

Level in EQF EQF level 5

OTHER SKILLS

Certificates from EUROCONTROL Learning Zone

- EMIT Workshop
- IFPS and flight planning E-learning
- Performance Based Navigation Awareness
- NMD Introduction Training

Aeronautical Projects

- **Design of an airport** in Aran Valley - 144 pages.
- Analysis and optimisation of **radio spectrum pollution** on 1030/1090 MHz bands associated with mode S transponders - 91 pages.
- Systematic review of **Eurocontrol's NMOC** airspace pre-validation process - 38 pages.
- **RNAV Procedure design** at Budapest airport (ICAO doc 8168) - 25 pages.
- Analysis of **CDOs** impact in Palma de Mallorca airport - 12 pages.
- **ETOPS** Flight planning - 25 pages.
- **ASTERIX** Decoder - 19 pages.
- **Cruise limitations** in montainous area assessment - 29 pages.

Other experience

ATC - Air Traffic Controller
January 2023 - Passed successfully all FEAST exams and received an offer to work as Air Traffic Controller for Belgian ANSP.

PPL - Private Pilots License
December 2022 - Theoretical exam succeed
34 PPL Flight Hours + 42 ULM Flight Hours

ATSEP - Air Traffic Security Electronic Personnel
February 2020 - Passed sucessfully ATSEP exams at Spanish ANSP.
Currently in the top of the job tank.

DRIVING LICENCE

Driving Licence: B

LANGUAGE SKILLS

Mother tongue(s): **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	C1	C1	C1	C1	C1
CATALAN	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming

Data Analysis using Numpy and Pandas │ Linux (RHEL CentOS Ubuntu Debian) │ GIT (GitHub) │ Linux Bash │ C C++ C (C-Sharp) │ JavaScript KML XML Openlayers Leaflet │ Programming SQL │ MATLABSimulink │ power bi │ html5 │ Container (Docker) │ Secure Shell (SSH)

Offimatics

Microsoft Word │ Windows MacOS Linux(wsl) │ Microsoft Excel │ Very good knowledge of MS Office (Outlook Word PowerPoint Excel) │ Microsoft Powerpoint │ Microsoft Office

Agile

Atlassian stack (Jira, Confluence, ...) │ Enterprise Arquitect │ Online collaboration tools (Miro, Trello, Asana, Zoom, Teams etc.) │ BPMN, EPC, UML