



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:

- Pass successfully **FEAST** exams.
- Understand the negotiations between FMP and NMOC in regards of **ATFM measures**.
- Work with **EAD** live data feed to support NMOC.
- Analyse the **operational logs** of flights using ETFMS documentation and AFTN addresses.
- Communicate with external and internal **stakeholders** to define clear requirements.
- Expand my knowledge of 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 post-operational data warehouse:
 - Data analysis on incidents and discrepancies of CACD, IFPS and ETFMS systems.
 - Data provision to different business units (ASU, Airports, CNS, AIU, ...)
 - Data integration from different systems, data transformation and data monitoring.
 - Plan data warehouse's updates according to each NM release.
 - Source analysis, process flow and systems documentation.
- Acting Product Owner in OSSAI projects:
 - Seq 13 - NOTAM AI: Enhancing REMEDY system with artificial intelligence in a cloud based solution.
 - Seq 11 - Airports Slots: Data provision of IATA level 2 and level 3 coordinated airports.
 - Seq 10 - OPLOG: Operational logs of ETFMS to assess the impact of regulations.
- Airport Corner project coordination:
 - Business requirements definition and UAT.
 - Curfew hours and Post operational feedback processes.
 - Network Operation Plan/Network Operations Report data provision.
 - Monthly coordination with NMOC to assess impact of airport events, feeding the Initial Network Plan.
- Cloud migration support on STATFOR's forecasting methods.
- Creation of MLAT algorithm solution for Sherlock Application.
- Coordination with internal and external stakeholders.

05/2020 – 06/2021 Brussels, Belgium

RF ANALYST EUROCONTROL

- CNS data analysis of ADS-B messages, radar interrogations and transponder replies.
- EMIT testing and monitoring of over-interrogated transponders. Passive antenna range analysis.
- Maintaining and developing pyModeS decoders.
- Analysis on dedicated monitoring flights (1030/1090 MHz bands: occupancy, interrogation and reply rates, radar's MIP, etc.).
- Report on ADS-B In performance.

- 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.

- Baggage check-in and passenger check-in for Ryanair's passengers.
- Assisting airline operations with cancellations and delays.

● **EDUCATION AND TRAINING**

Level in EQF EQF level 7

Level in EQF EQF level 6

Level in EQF EQF level 5

● **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) | TCP/IP | Intermediate Python | 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, ...) | Online collaboration tools (Miro, Trello, Asana, Zoom, Teams etc.)

● ADDITIONAL INFORMATION

OTHER SKILLS

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.

April 2023 - Passed FEAST II group interviews in Maastricht (MUAC), rejected on last interview.

PPL - Private Pilots License

December 2022 - Theoretical exam succeed

32 PPL Flight Hours + 30 ULM Flight Hours

ATSEP - Air Traffic Security Electronic Personnel

February 2020 - Passed successfully ATSEP exams at Spanish ANSP.

Currently in the top of the job tank.

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.
- **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 mountainous area assessment - 29 pages.

DRIVING LICENCE

Driving Licence: B