ANDRÉ YERMAK NAUMENKO

TELEMATICS ENGINEER, DATA & INFRASTRUCTURE

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Telematics engineer working as a Data Engineer on production systems, with on-premise and cloud deployments behind me. I have also run my own infrastructure since 2020, where I've learned most of what I know about keeping things up. My degree gave me a telecoms and hardware base as well, with signals, radio links, networking and digital design. I like automating what repeats and learning quickly what I don't know yet.

EXPERIENCE

Data Engineer May 2026 – Present
Setenova, Spain

- Computer-vision platform with 20+ simultaneous cameras and 100–200 frames/s of real-time metadata, moved through Kafka into PostgreSQL and S3 behind a FastAPI service.
- Defined the system SLA, turned it into measurable objectives and used them to validate each deployment.
- Data lifecycle on a medallion architecture, using time-series techniques to age raw data.
- Deployed the same platform on-premise and in the cloud, in very different environments.
- Airflow pipelines for public smart-city APIs. Versioning, releases and CI with GitHub Actions.

Data Engineering Intern Oct. 2025 – May 2026
Setenova, Spain

- Integrated and processed heterogeneous sources, analysed real-time protocol data and visualised traffic data.
- Video streaming over RTSP with MediaMTX, detection with models such as YOLO and RF-DETR, messaging with Kafka, and all of that information visualised at business level in the frontend.

OWN INFRASTRUCTURE

Self-hosted services on Linux 2020 – Present
Domains, SaaS products and sites I run myself

- Several domains and sites, plus two SaaS products of my own, Kubo (game-server hosting) and Nutria (nutrition and training).
- Docker, HAProxy, Prometheus, OpenTofu, DNS, mail and Let's Encrypt certificates.
- Two real outages, both recovered, one from a broken Node dependency build and one that needed a full game-hosting panel restored from backups. Cause fixed each time.

PROJECTS

Kubo kubo.csmak.com
Hosting for Minecraft Java and Bedrock servers, with cross-play, and PostgreSQL, Redis and MongoDB databases. Stripe, Bun, Hono, Drizzle, React

Nutria nutria.csmak.com
Evidence-based weekly nutrition and training plans that learn from real watch, scale and log data. Python

tmuxxer GitHub
Shared Rust CLI that unifies directories, tmux sessions and Docker containers in one fzf picker

rookt GitHub
Rust extractor that organises millions of games from the Lichess open database into per-player archives

OTracker tracker.yernau.com
ptylabs image and video editor that tracks objects with SAM 2.1, entirely in the browser

Chess Stylometry Grade 10/10
Bachelor's thesis. Siamese network with triplet loss over board images and decision-time maps, with no engine input. Top-5 of about 80% among 10 players and about four times chance among 200

SmartEcoRutas 2nd place, Retos UPCT 2026
Heuristic optimisation of urban waste-collection routes in Cartagena

TELECOMMUNICATIONS & HARDWARE

Digital design and microcontrollers GitHub
Sequential multiplier in VHDL with a state machine and testbench, ZedBoard labs (clock dividers, counters, timers), PIC16F876A assembly (USART, ADC, lookup tables)

Wireless network design Report
Radio links in the 2.4 and 5 GHz bands for a village of about 400 people, with materials, budget and EIRP compliance. With Álvaro Hernández

Radio and multiple access Reports
Path-loss modelling and link budgets on 802.11g, and slotted and frame slotted ALOHA throughput

MITRE eCTF Apr. 2025
Embedded Capture the Flag, security of embedded systems. Participant

SKILLS

LANGUAGES	Python, Rust, Java, TypeScript, SQL, C, C#
DATA	Kafka, PostgreSQL, S3, Airflow, FastAPI, Pandas, NumPy
INFRA	Linux, Docker, HAProxy, OpenTofu, Ansible, GitHub Actions
OBSERVABILITY	Prometheus, SLA/SLO definition
NETWORKING	TCP/IP, DNS, load balancing, TLS/SSH, SMTP, SNMP, MPLS, OSPF, VLAN, RTSP
RF & SIGNALS	Radio links, propagation models, link budgets, multiple access
HARDWARE	VHDL, testbench simulation, ZedBoard, PIC assembly
AI TOOLS	Claude Code, GitHub Copilot

EDUCATION & LANGUAGES

BSc Telematics Engineering 2021 – 2026
Polytechnic University of Cartagena. Exchange in Dublin and Malta.

Professional Music Conservatory 2018 – 2024
Music studies

LANGUAGES Spanish (native), Russian (native), English (C1, Cambridge), Ukrainian (basic)

OTHER

Talent4Cyber Oct. 2024
Cybersecurity event. Participant

Co-founder, Gambito de Puente Tocinos youth association Sept. 2025 – Present
Activities, events and group chess classes

Chess and music teacher June 2024 – Jan. 2026
Extracurricular classes, with planning, communication and personalised teaching