

Senior-Level Opportunity in Autonomous Flight Systems (UAVs)

Senior Controls Engineer (GNC & Autonomy)

Munich | Full-time | Permanent

Who we are

Twentyfour Industries is an early-stage, VC-backed European startup building advanced small unmanned systems to strengthen European technological sovereignty and security. We operate at the intersection of control theory, embedded systems, and real-world flight testing, translating academic rigor into production-grade autonomous systems.

The technical challenge

We are looking for a Senior Controls Engineer (GNC & Autonomy) to design and implement the core flight behavior of our UAV platforms. This role goes far beyond configuring existing autopilots. You will architect and implement control, estimation, and guidance logic that directly governs aircraft behavior in real, safety-critical environments.

Core focus areas

- Guidance, Navigation & Control (GNC) for autonomous UAVs
- Advanced control strategies (Adaptive PID, LQR, MPC)
- State estimation & sensor fusion (EKF, IMU, GNSS, airspeed, barometer)
- Embedded, safety-critical C++ within PX4 / ArduPilot
- Autonomy logic on companion computers (ROS 2, MAVLink, DDS)
- Simulation-driven development (SITL / HITL) and flight-log analysis

Who this is a great fit for

This role is ideal for candidates with a strong theoretical background in control theory, robotics, or aerospace who enjoy translating mathematical models into embedded systems. A PhD or PhD-level background is highly relevant, especially for those motivated to see their work fly in real-world systems rather than remain purely theoretical.

What we offer

- Competitive compensation including salary and equity participation
- A central technical role shaping next-generation autonomous UAV systems
- Collaboration in a small, high-performing engineering team
- Flexible working arrangements and relocation support for exceptional candidates
- Direct exposure from theory to code to flight testing

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