



System Engineer, Drone Perception Solutions

Location: Brussels, Belgium (Flexible/Hybrid Work Model)

About VoxelSensors

VoxelSensors is a pioneering startup at the forefront of Intelligent Perception. Our mission is to revolutionize spatial awareness and perception for Mobile, XR, and industrial applications through our groundbreaking Single Photon Active Event Sensor (SPAES™) technology. We are developing power-efficient, low-latency solutions that enable machines to perceive and interact with the world in fundamentally new ways.

Your Role

We are looking for a talented and motivated System Engineer to be the cornerstone of our drone technology team. In this mid-level role, you will be a key individual contributor with a clear growth path towards becoming a technical lead. We are also open to considering more experienced candidates for a senior position.

Your core focus will be to develop a cutting-edge product line of drone perception modules powered by our unique SPAES™ technology. You will contribute to the system architecture from concept to productization, solving critical challenges in aerial autonomy for navigation, mapping, and collision avoidance. This is a unique opportunity to define and build the technology that will allow drones to operate with unprecedented levels of awareness and safety.

Your activity

- Contribute to the system-level design, development, and integration of drone perception modules.
- Translate market analysis and customer needs into concrete system requirements and detailed technical specifications.
- Architect robust hardware and software solutions, ensuring the seamless integration of VoxelSensors' sensors, processing units, and perception algorithms.
- Design and implement together with the software team integrations for advanced functionalities, including sensor fusion, LiDAR-inertial odometry, SLAM, and 3D mapping.
- Collaborate closely with our cross-functional teams of hardware, software, and algorithm engineers to deliver high-performance, product-ready solutions.
- Develop and test prototypes and proof-of-concepts to validate system designs and demonstrate capabilities to key customers and partners.

Who You Are

- You have a Master's degree in Robotics, Computer Science, Electrical Engineering, or a related field.



- You possess 3+ years of professional experience in robotics, autonomous systems, computer vision, or a relevant domain.
- You have a strong technical foundation in computer vision and perception principles.
- You bring hands-on experience with drone systems, their architecture, and perception and autonomy stacks.
- You are proficient in C/C++ and Python for system development and integration.
- You are skilled in system-level design, requirements definition, and hardware/software integration.

Preferred Qualifications (Nice to Have)

- Experience with ROS/ROS2 in a professional environment.
- Familiarity with sensor fusion techniques (e.g., Kalman filters, IMU/camera fusion).
- Experience with embedded systems, real-time computing, and hardware acceleration.
- Knowledge of common flight controllers (e.g., PX4, ArduPilot) and their ecosystems.

What We Offer

- **Impactful Work:** A key role in a deep-tech startup with the opportunity to shape the future of machine perception.
- **Intellectual Challenge:** Complex and satisfying system-level challenges that will advance your technical expertise.
- **Global Team:** A dynamic, international, and highly motivated team of experts in their fields.
- **Competitive Compensation:** A strong compensation package commensurate with experience.
- **Flexibility:** A modern work environment that embraces flexibility and supports a healthy work-life balance.

You need to know that the office is located in Brussels, Belgium. We offer a hybrid work model to combine the benefits of in-person collaboration with the flexibility of remote work to help us achieve our ambitious goals. Our company is committed to fostering an inclusive, high-performance culture where all employees are valued for their unique contributions and individual merit.

How to Apply

Please send your resume and a brief cover letter explaining your interest in the role to hr@voxelsensors.com.

**Privacy notice:**

By submitting your application and resume by email, you acknowledge that your personal data contained in such documents will be collected and processed by VoxelSensors SRL/BV (a company with registered offices at Cantersteen 47, 1000 Bruxelles (Belgium) and registered with the Crossroads Bank for Enterprises under company number 0745.364.628 – “VoxelSensors”) for the purpose of managing your application. VoxelSensors processes such personal data on the basis of its legitimate interests (i.e. managing your application). VoxelSensors has implemented appropriate technical and organisational measures in order to safeguard your personal data against any accidental or illicit destruction, accidental loss, modification, deterioration, usage, access, divulgation and against any other unauthorized processing of your personal data. VoxelSensors will not make your personal data publicly available. Steps will be taken to ensure that your personal data is not kept for longer than is necessary. Your personal data will be retained for as a long as necessary to manage your application and for no more than two (2) years following the termination of your potential recruitment process (to contact you in case a new job offering may fit your profile) or five (5) years following the termination of your employment, as applicable, unless VoxelSensors has a specific legitimate interest in storing your personal data for a longer period (e.g. to comply with a legal obligation or in the framework of a litigation). Any personal data which is contained in VoxelSensors’ or any of its processor’s regular backups will not be deleted, provided that any such personal data shall remain subject to the applicable confidentiality, data privacy, and security obligations until destroyed.