

HMI Engineer

About the company

We are Hovering Solutions, a steadily growing company headquartered in Madrid. In our development hub in Madrid city, Spain, we are creating disruptive technology solving a major problem related to the inspection and 3D digitalization of indoor/underground infrastructure using Autonomous Flying Robots. We highly value the contribution of all team members to the decision-making process enabling them to drive the growth of our company. Hence, we strive to create the best possible working atmosphere making feel the team members comfortable as we are highly interested in a long-term relationship with each person we hire.

About the position

As a robot developer, the connection between machines and humans is essential for the efficient usage of the technology as well as for the parametrization of our aerial vehicles. This interaction process must be clear, unambiguous, and well-structured as it is used from the development stage up to the technology operation and commercialization. For that purpose, we are implementing an HMI able solve aerial vehicles parametrization, real-time 3D visualization and massive data handling processes between our robots and other actors involved in the technology value chain, including mainly humans, but also data warehouses and processing servers.

Summary of the tasks

- Define and implementation of backend infrastructure according to robots' interactions requirements
- Design most efficient and robust data management structure
- Establish data flow pipelines based on resilience and consistency
- Define database structure for parametrization and tracking of robot our units
- Contribution to the implementation of 3D visualization interface and its connection to system backend
- Implementation, testing and validation of systems and subsystem in cooperation with the development team

Required qualifications and skills

- Bachelor's Degree or equivalent education in Computer Science or relevant technical degree
- In-depth knowledge of requirements or systems engineering methodology
- Design of the database. (f.i. MySQL, MariaDB)
- Implementation of the web application (Java Script, HTML5, frameworks like IONIC or REACT), which will require the elaboration of an API to communicate with other system modules (developed in C, C++)
- Proven experience in the tasks that is expected to carry out.
- Knowledge in robotics/drones and/or similar technology will be highly valuable.
- English skills orally and written (B2 or higher).
- European driving license.
- Willingness to travel national and internationally for short periods.
- Office work.