

Exail Robotics Belgium – Mechatronic engineer

Are you an engineer with a passion for innovative technologies and high-tech mechatronic systems ?

Within our dynamic Engineering Team, you will play a key role in the design and development of pioneering autonomous and steerable systems for anti-mine warfare. You will work on the latest generation of underwater drones, control systems and sonar components and have the opportunity to combine your technical expertise with creativity and innovation.

Profile & skills :

You will be responsible for :

- Designing and developing autonomous and controlled systems (underwater drones, control systems, sonar system components, etc.).
- Performing analyses and calculations for the dimensioning of systems (analysis of forces and stresses, interpretation of simulations from other departments such as hydrodynamics, etc.), as well as the study of interfaces.
- Defining and evaluating architecture choices.
- Supervising the fabrication of prototypes.
- Designing and conducting tests to validate the systems.
- Contributing to the improvement of existing products.
- Performing technology monitoring.

Responsibilities :

Essential skills

- Mechanical dimensioning software (Ansys, Abaqus...), 3D visualisation, component design and manufacturing (Creo, SolidWorks, CATIA...).
- Electronic simulation software (Spice...).
- Automation (C, Python...).

Desired skills.

- Underwater robotics.
- Sonar systems.
- Experience of working at sea.
- Agile development methodologies.

<https://www.exail.com/>