



Space Applications Services – Internship – Robotics Software

Internship Position

In the context of several research and development projects focused on autonomous systems and robotics, we are seeking a motivated intern to contribute to the development of online planning algorithms and techniques for both single-agent and multi-agent robotic platforms.

The successful intern will participate in the design, implementation, and testing of path planning and coordination strategies for mobile robots. This internship is hosted by the RSI division and may be organized to satisfy the requirements of a Master Thesis.

- **Location:** Sint-Stevens-Woluwe (Brussels Area)
- **Duration:** 6 months
- **Start date:** As of October 2026

Tasks and Responsibilities

- Develop, evaluate, and optimize online planning algorithms for robotic agents operating in dynamic environments.
- Investigate and implement coordination strategies for multi-agent systems, focusing on decentralized and centralized planning approaches.
- Integrate and test planning components on both simulated and physical robotic platforms.
- Support the deployment of software components and integration of sensors for real-time perception and planning.

Skills and Experience

- Currently enrolled in a Master's degree in Robotics, Computer Science, Artificial Intelligence, or a related field.
- Solid programming experience in C++ and/or Python on Ubuntu.
- Familiarity with the ROS2 framework within Docker for development and deployment
- Experience implementing and testing planning algorithms on real robotic systems.
- Foundational knowledge in one or more of the following:

- Motion/path planning and trajectory optimization
- Multi-agent task allocation and coordination
- Basic robotic kinematics and navigation

Considered as Assets

A selection of the following will be considered as an asset:

- Knowledge of online planning methods such as RRT*, D*, MPC, or Dec-MDPs
- Familiarity with multi-robot frameworks (e.g. ROS2 multi-node communication, swarm robotics platforms)
- ROS2 Behaviour Trees.

Our Offer

- An experience within a growing company with highly motivated Engineers, Scientists and Administrative Staff coming from all different horizons and countries
- A professional and multicultural working atmosphere
- A client exposure and networking opportunities
- A full-time Internship with a monthly lump sum allowance, under certain conditions.