

ROSCon FR&DE 2025

WORKSHOPS

Workshop Title	Get your hands dirty: an exploratory session on how to solve realistic automation problems with ROS2
Names of principal instructors	Thomas Degallaix / Justin Mottier / Romain Krikorian / Thomas Deffontaines (Niryo)
Number of supplementary instructors	0
Maximum of participants	20
Language	English
Workshop duration	4h
Required material	Personal laptops
Skills required for participants	Intermediate to expert level with ROS2

Brief description

Join Niryo's hands-on workshop where you'll get to work with real hardware to tackle a realistic industrial automation scenario using ROS2.

Participants will interact with a complete robotic cells setup, including the Niryo's newest Ned3pro robot arm, conveyor belts, multiple tools, ...

The session is designed as an exploratory exercise: you'll be provided with working building blocks and templates, and invited to replace or improve them to solve key parts of the automation problem, from programming robot behaviors to develop multi-machine communication.

The goal is not just to follow a tutorial, but to actively explore how ROS 2 can help solve concrete, multi-components automation challenges.

Expect to collaborate, experiment, and get creative with ROS 2, all while working on a tangible, real-world task.

Participants will work in groups of 4. Each group working with 2 robotic arms and 2 conveyor belts.