

Robot Operating System (ROS2) News

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- [Open-source project builds robot vision for shiny objects](#) [2]

Contract R&D organisation, Southwest Research Institute, has developed a vision solution that improves robot handling of shiny metallic objects.

The project integrates intelligent part reconstruction using the second generation of the Robot Operating System (ROS2) framework, an open-source software consortium for robotics applications.

[...]

Within the ROS framework is ROS-Industrial, which extends ROS capabilities to robotics in manufacturing and automation. This latest Southwest Research Institute and ROS-Industrial solution uses ROS2 to integrate cameras affixed to a robotic arm, collecting point cloud data at a high frame rate to create a 3D output mesh that optimises path planning.

- [Open Source Robotics: Hands on with Gazebo and ROS 2](#) [3]

Louise Poubel gives an overview of ROS (Robot Operating System) and Gazebo (a multirobot simulator), the problems they've been solving so far and what's on the roadmap for the future. In the second half of the talk, a hands-on demo walks through the creation of a robot in simulation and controlling and inspecting it using ROS 2, the next generation ROS.

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Links:

[1] <http://www.tuxmachines.org/taxonomy/term/37>

[2] <https://www.imveurope.com/news/open-source-project-builds-robot-vision-shiny-objects>

[3] <https://www.infoq.com/presentations/gazebo-ros-2>