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Seamless Robotics Innovation: From AI-Enhanced Vision to Industrial-Ready Deployment

Robotics Vision Control: The demo shows how objects in 2D and 3D are detected, localized and classified using AI to feed precise coordinates into the robot's workflow. The system drives a 6DOF robot arm with real-time motion planning that tracks and grips moving targets in random positions, all under a hard 2 ms control cycle. The Intel integrated GPU executes the AI and planning, while the CPU runs a SoftPLC for conveyor control and a safety stack that halts the robot the moment it identifies a human in the work zone. The setup leverages capabilities from software frameworks like Intel Open Edge Platform and OpenVINO™ integrated with Ubuntu Pro and a real-time kernel. This software stack shrinks rampup time, accelerates delivery of advanced robotic solutions, and maximizes their performance and efficiency.

AI-based Quality Inspection with ctrlX OS and Ubuntu Core: This demo presents an AI-based quality inspection solution that enables easy, vision-guided inspection instead of complex mechanical positioning for precise quality control. The vision system is integrated directly into the industrial control system and can be realized by OT engineers without the need for vision or AI specialists. AI models are trained directly on the industrial PC, with inference running on the edge device. Machine control and vision inspection merge on a single industrial platform, enabling software-defined automation, with all edge devices and IPCs running Ubuntu Core and ctrlX OS.

Partner Links:

<https://canonical.com/>

<https://canonical.com/partners/silicon/intel>

[Download Ubuntu for Intel IoT platforms](#)

Meeting Request Link:

<https://ubuntu.com/engage/embedded-world-2026>

Partner Name

Canonical

Booth Location

Hall 4, Booth 4-160

Solution Names

- Solutions for IoT and Devices
- Ubuntu Core
- Ubuntu Pro
- Ubuntu Certified Devices
- Ubuntu for Intel IoT Platforms