

Physical AI: from simulation to robots that work on the shop floor

Software-Defined Robotics with DEX

IZB 2026



MADE FOR

Automakers and manufacturers that want robots to adapt to changing tasks, products and production lines, without reprogramming every time something changes. It's also for those taking their embedded software expertise from the vehicle into robotics.

BUILT WITH

Wandelbots NOVA, NVIDIA Omniverse and Isaac Sim, and the DXC Luxoft embedded AI stack, integrated by DXC as one accountable partner.

WHY DXC FOR AUTOMOTIVE?

DXC helps carmakers and suppliers simplify complexity, build what matters and engineer it to scale. We combine deep automotive domain expertise with hands-on technical execution, giving clients a single partner from strategy to operations. Our teams integrate the industry software platforms automakers rely on, while building the proprietary systems that set them apart: digital cockpit and infotainment, autonomous driving, test and validation, and connected vehicle services. Our partner ecosystem spans silicon and AI compute leaders, industry platform specialists and domain-focused startups. Combined with our own engineering and enterprise-grade integration, it lets clients adopt proven, production-ready building blocks instead of starting from scratch. Through Physical AI, we engineer intelligent systems where software, hardware and AI come together, in the vehicle and on the shop floor. The result is faster innovation, consistent quality and compliance, and vehicle experiences that keep evolving over time.

WHY IT MATTERS

Factory automation is still rigid. Robot programs are tied to one vendor's hardware, every change means new programming, and pilots often stay one-offs that never scale across plants. As manufacturers move into robotics, the same software challenges follow them: safety, real-time performance and updates over a product's lifetime.

EXPERIENCE IT LIVE

- Meet DEX, our robot guide, who walks you through the booth and every demo.
- Discover how software, hardware and AI come together in the vehicle and on the shop floor.
- Watch our partner video showing DXC Luxoft and Wandelbots in action.

UNDER THE HOOD

- Simulate: Physics-accurate digital twins in NVIDIA Omniverse validate robot cells and production flows before they go live.
- Train: Robot skills are learned with synthetic and real data.
- Abstract: Wandelbots NOVA separates robot skills from the hardware, so one skill works across KUKA, FANUC and Universal Robots.
- Deploy: DXC Luxoft embedded AI runs at the edge, validated with HIL/SIL and over-the-air (OTA) safety checks.
- Integrate: DXC connects robots to your IT/OT, from chip to cloud to shop floor.

WHAT IT MEANS FOR YOU

- Robot skills you can reuse across sites and hardware
- Much less programming effort, with no rework when hardware changes
- A faster path from pilot to production
- Investments that carry forward as Physical AI matures
- One software partner from the car to the factory, and to the robots that will one day share our homes

Let DEX show you where automotive software goes next.

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